| Project Title   | Funding   | Strategic Plan Objective | Institution                                       |
|---|-----------|--------------------------|---|
| 1/2-Effects of parent-implemented intervention for toddlers with autism spectrum disorder | \$427,655 | Q4.S.D                   | Florida State University                          |
| 1/3-Atomoxetine placebo and parent training in autism                                     | \$269,976 | Q4.S.F                   | University of Pittsburgh                          |
| 1/3-Multisite RCT of early intervention for spoken communication in autism                | \$540,947 | Q4.S.F                   | University of California, Los Angeles             |
| 1/3-Sequencing autism spectrum disorder extended pedigrees                                | \$299,000 | Q3.L.B                   | University of Utah                                |
| 1/5-Randomized trial of parent training for young children with autism                    | \$415,097 | Q4.S.D                   | Yale University                                   |
| 2/2-Effects of parent-implemented intervention for toddlers with autism spectrum disorder | \$284,658 | Q4.S.D                   | Weill Cornell Medical College                     |
| 2/3-Atomoxetine placebo and parent training in autism                                     | \$350,730 | Q4.S.F                   | The Ohio State University                         |
| 2/3-Multisite RCT of early intervention for spoken communication in autism                | \$391,019 | Q4.S.F                   | University of Rochester                           |
| 2/3-Sequencing autism spectrum disorder extended pedigrees                                | \$231,688 | Q3.L.B                   | University of Washington                          |
| 2/5-Randomized trial of parent training for young children with autism                    | \$213,407 | Q4.S.D                   | The Ohio State University                         |
| 2012 Fragile X and Autism-Related Disorders: From Basic Neuroscience to Improved          | \$15,000  | Q7.K                     | Gordon Research Conferences                       |
| 3/3-Atomoxetine placebo and parent training in autism                                     | \$263,639 | Q4.S.F                   | University of Rochester                           |
| 3/3-Multisite RCT of early intervention for spoken communication in autism                | \$813,835 | Q4.S.F                   | Kennedy Krieger Institute                         |
| 3/3-Sequencing autism spectrum disorder extended pedigrees                                | \$160,000 | Q3.L.B                   | University of Pennsylvania                        |
| 3/5-Randomized trial of parent training for young children with autism                    | \$230,655 | Q4.S.D                   | University of Rochester                           |
| 4/5-Randomized trial of parent training for young children with autism                    | \$235,418 | Q4.S.D                   | Indiana University-Purdue University Indianapolis |
| 5/5-Randomized trial of parent training for young children with autism                    | \$236,220 | Q4.S.D                   | University of Pittsburgh                          |
| Abnormal network dynamics and "learning" in neural circuits from Fmr1-/- mice             | \$192,500 | Q2.S.D                   | University of California, Los Angeles             |
| Abnormal vestibulo-ocular reflexes in autism: A potential endophenotype                   | \$0       | Q1.L.A                   | University of Florida                             |
| Access, quality and financial implications of the transitions of children with autism     | \$0       | Q5.S.A                   | University of North Carolina at Chapel Hill       |
| ACE Center: Administration and data management  | \$302,671 | Q7.Other                 | Boston University                                 |
| ACE Center: Administrative Core   | \$114,622 | Q7.Other                 | Yale University                                   |
| ACE Center: Administrative Core   | \$208,325 | Q7.Other                 | University of California, Los Angeles             |
| ACE Center: Administrative Core   | \$73,923  | Q7.Other                 | Emory University                                  |
| ACE Center: Assessment Core   | \$510,544 | Q1.L.A                   | Yale University                                   |

| Project Title   | Funding   | Strategic Plan Objective | Institution                           |
|---|-----------|--------------------------|---------------------------------------|
| ACE Center: Auditory mechanisms of social engagement  | \$257,504 | Q1.Other                 | Yale University                       |
| ACE Center: Auditory perception and perceptual organization in minimally verbal children with ASD     | \$288,440 | Q2.L.B                   | Boston University                     |
| ACE Center: Augmenting language interventions for ASD: A translational approach                       | \$281,072 | Q4.L.A                   | University of California, Los Angeles |
| CE Center: Changing developmental trajectories<br>nrough early treatment                              | \$390,669 | Q4.L.D                   | Emory University                      |
| ACE Center: Clinical Assessment Core  | \$362,584 | Q7.Other                 | Emory University                      |
| CE Center: Clinical Core  | \$575,083 | Q7.Other                 | Boston University                     |
| CE Center: Data Management and Analysis Core  | \$201,589 | Q7.Other                 | Yale University                       |
| CE Center: Data Management and Analysis Core  | \$97,824  | Q7.Other                 | Emory University                      |
| CE Center: Diagnostic and Recruitment Core  | \$236,921 | Q7.Other                 | University of California, Los Angeles |
| CE Center: Eye-tracking studies of social engagement  | \$287,074 | Q1.L.B                   | Yale University                       |
| CE Center: Gaze perception abnormalities in infants<br>//ith ASD                                      | \$286,420 | Q1.L.A                   | Yale University                       |
| CE Center: Genetic and genomic analyses to connect enes to brain to cognition in ASD                  | \$252,243 | Q2.S.G                   | University of California, Los Angeles |
| CE Center: Inter-regional connectivity in the speech etwork of minimally verbal children              | \$365,407 | Q4.S.G                   | Boston University                     |
| CE Center: Neural assays and longitudinal assessment finfants at very high risk for ASD               | \$186,019 | Q1.L.A                   | University of California, Los Angeles |
| CE Center: Neuroimaging/Neurophysiology Core  | \$195,745 | Q7.Other                 | University of California, Los Angeles |
| CE Center: Neuroimaging signatures of autism: Linking rain function to genes and behavior             | \$191,823 | Q2.S.G                   | University of California, Los Angeles |
| CE Center: Neuroimaging studies of connectivity in SD   | \$315,268 | Q2.Other                 | Yale University                       |
| CE Center: Ontogeny and neural basis of social visual ngagement in monkeys                            | \$314,068 | Q2.Other                 | Emory University                      |
| CE Center: Predicting risk and resilience in ASD nrough social visual engagement                      | \$329,264 | Q2.L.B                   | Emory University                      |
| CE Center: Rare variant genetics, contactin-related roteins and autism                                | \$324,189 | Q3.L.B                   | Yale University                       |
| CE Center: Research, training and education   | \$91,207  | Q7.K                     | Boston University                     |
| CE Center: Research Education and Training Core   | \$233,017 | Q7.K                     | University of California, Los Angeles |
| CE Center: Research Training and Education Core   | \$58,382  | Q7.K                     | Emory University                      |
| CE Center: Targeting joint engagement in infants at sk for ASD: Integrating treatment with biomarkers | \$279,987 | Q4.L.B                   | University of California, Los Angeles |

| Project Title  | Funding     | Strategic Plan Objective | Institution                                 |
|--|-------------|--------------------------|---|
| ACE Center: Testing the efficacy of a novel intervention for minimally verbal children with ASD                            | \$377,590   | Q4.S.G                   | Boston University                           |
| ACE Center: The ontogeny of social vocal engagement and its derailment in autism   | \$201,683   | Q1.L.A                   | Emory University                            |
| ACE Network: A comprehensive approach to identification of autism susceptibility genes                                     | \$2,631,440 | Q3.L.B                   | University of California, Los Angeles       |
| ACE Network: A comprehensive approach to identification of autism susceptibility genes (supplement)                        | \$442,627   | Q3.L.B                   | University of California, Los Angeles       |
| ACE Network: Adaptive interventions for minimally verbal children with ASD in the community                                | \$2,755,427 | Q4.S.G                   | University of California, Los Angeles       |
| ACE Network: A longitudinal MRI study of infants at risk for autism  | \$2,619,590 | Q2.L.A                   | University of North Carolina at Chapel Hill |
| ACE Network: A longitudinal MRI study of infants at risk for autism (supplement)   | \$565,115   | Q2.L.A                   | University of North Carolina at Chapel Hill |
| ACE Network: Early Autism Risk Longitudinal Investigation (EARLI) Network  | \$2,835,202 | Q3.L.A                   | Drexel University                           |
| ACE Network: Early biomarkers of autism spectrum disorders in infants with tuberous sclerosis                              | \$2,649,781 | Q1.L.A                   | Boston Children's Hospital                  |
| ACE Network: Early pharmacotherapy guided by biomarkers in autism  | \$1,996,122 | Q4.S.F                   | Wayne State University                      |
| ACE Network: Multigenerational Familial and Environmental Risk for Autism (MINERVA) Network                                | \$1,000,000 | Q3.L.D                   | Mount Sinai School of Medicine              |
| ACE Network: Multimodal developmental neurogenetics of females with ASD  | \$3,118,985 | Q2.S.B                   | Yale University                             |
| ACE Network: Study of Oxytocin in Autism to Improve Reciprocal Social Behaviors (SOARS-B)                                  | \$2,589,347 | Q4.L.A                   | University of North Carolina at Chapel Hill |
| A collaborative translational autism research program for the military.  | \$903,888   | Q2.S.G                   | Nationwide Children's Hospital              |
| A computer-based social intervention for students with high functioning ASD: Using technology to improve special education | \$899,994   | Q4.L.D                   | 3-C Institute for Social Development        |
| Action anticipation in infants   | \$102,258   | Q2.Other                 | University of Chicago                       |
| Activity-dependent phosphorylation of MeCP2  | \$177,055   | Q2.S.D                   | Harvard Medical School                      |
| Adapting cognitive enhancement therapy for ASD   | \$213,586   | Q4.Other                 | University of Pittsburgh                    |
| Adaptive response technology for autism spectrum disorders intervention  | \$371,470   | Q4.Other                 | Vanderbilt University Medical Center        |
| Administrative Core  | \$529,146   | Q7.Other                 | University of North Carolina at Chapel Hill |
| Advancing Social-Communication and Play (ASAP): An intervention program for preschoolers with autism                       | \$859,119   | Q4.S.D                   | University of North Carolina at Chapel Hill |
| A family-genetic study of autism and fragile X syndrome  | \$751,420   | Q2.S.D                   | Northwestern University                     |
| A family-genetic study of language in autism   | \$391,295   | Q2.S.G                   | Northwestern University                     |

| Project Title   | Funding     | Strategic Plan Objective | Institution   |
|---|-------------|--------------------------|---|
| A history of behavioral genetics  | \$0         | Q3.Other                 | University of Pittsburgh                            |
| AIR-P Research RFAs   | \$1,188,715 | Q7.K                     | N/A   |
| Allelic choice in Rett syndrome   | \$390,481   | Q2.S.D                   | Winifred Masterson Burke Medical Research Institute |
| A longitudinal MRI study of brain development in fragile X syndrome   | \$610,416   | Q2.S.D                   | University of North Carolina at Chapel Hill         |
| Altered gastrointestinal function in the neuroligin-3 mouse model of autism   | \$0         | Q2.S.E                   | University of Melbourne                             |
| Altered gastrointestinal function in the neuroligin-3 mouse model of autism   | \$0         | Q2.S.E                   | University of Melbourne                             |
| Altered gastrointestinal function in the neuroligin-3 mouse model of autism   | \$0         | Q2.S.E                   | University of Melbourne                             |
| Altered placental tryptophan metabolism: A crucial molecular pathway for the fetal programming of neurodevelopmental disorders                  | \$535,699   | Q2.S.A                   | University of Southern California                   |
| Amygdala connectivity in autism spectrum disorder   | \$49,934    | Q2.L.A                   | University of California, Davis                     |
| Analyses of brain structure and connectivity in young children with autism  | \$238,042   | Q1.L.B                   | University of California, Davis                     |
| Analysis of cultural appropriateness and necessary modifications of the Survey of Well Being for Young Children on Native American reservations | \$100,000   | Q1.S.B                   | University of Colorado Denver                       |
| Analysis of Shank3 complete and temporal and spatial specific knockout mice   | \$481,448   | Q2.Other                 | Duke University                                     |
| Analysis of the small intestinal microbiome of children with autism   | \$0         | Q3.S.I                   | Massachusetts General Hospital                      |
| A network approach to the prediction of autism spectrum disorders   | \$223,949   | Q1.L.A                   | Indiana University                                  |
| A neural model of fronto-parietal mirror neuron system dynamics   | \$183,960   | Q2.Other                 | University of Maryland, College Park                |
| A neuroimaging study of twin pairs with autism  | \$625,557   | Q2.S.G                   | Stanford University                                 |
| Animal-assisted intervention for children with autism spectrum disorder   | \$75,007    | Q4.L.D                   | Purdue University                                   |
| Animal model of genetics and social behavior in autism spectrum disorders   | \$791,070   | Q2.S.G                   | Duke University                                     |
| Animal model of speech sound processing in autism   | \$283,249   | Q4.S.B                   | University of Texas at Dallas                       |
| Animal models Of neuropsychiatric disorders   | \$974,415   | Q4.S.B                   | National Institutes of Health                       |
| An MEG investigation of neural biomarkers and language in nonverbal children with autism spectrum disorders                                     | \$154,617   | Q1.L.A                   | University of Colorado Denver                       |
| An open resource for autism iPSCs and their derivatives   | \$562,927   | Q7.D                     | Children's Hospital of Orange County                |
| A novel adaptive transactional virtual reality-based assistive technology for autism intervention   | \$104,814   | Q4.Other                 | Vanderbilt University                               |

| Project Title   | Funding   | Strategic Plan Objective | Institution   |
|---|-----------|--------------------------|---|
| A novel quantitative framework to study lack of social interactions in autism   | \$0       | Q1.L.B                   | Rutgers, The State University of New Jersey - New Brunswick |
| A parent to parent model of support and service coordination for families of preschool age children with ASD                  | \$300,000 | Q5.S.A                   | University of Connecticut Health Center                     |
| App for Speech Development for Students with ASD  | \$150,000 | Q4.S.G                   | HandHold Adaptive, LLC                                      |
| A prospective multi-system evaluation of infants at risk for autism   | \$0       | Q1.L.B                   | Massachusetts General Hospital                              |
| A prospective multi-system evaluation of infants at risk for autism   | \$0       | Q1.L.B                   | Massachusetts General Hospital                              |
| A randomized, controlled trial of intranasal oxytocin as<br>an adjunct to behavioral therapy for autism spectrum<br>disorder  | \$0       | Q4.S.C                   | Massachusetts General Hospital                              |
| A randomized clinical trial of cognitive enhancement therapy for adults with autism spectrum disorders                        | \$0       | Q4.S.F                   | University of Pittsburgh                                    |
| A randomized trial of the SCERTS curriculum for students with autism spectrum disorders in early elementary school classrooms | \$749,849 | Q4.S.D                   | Florida State University                                    |
| Are autism spectrum disorders associated with leaky-gut at an early critical period in development?                           | \$302,820 | Q1.L.A                   | University of California, San Diego                         |
| Assessing interactive avatars for use with children with autism   | \$76,800  | Q4.Other                 | Carnegie Mellon University                                  |
| Assisted reproductive technologies and increased autism risk  | \$200,000 | Q3.L.C                   | Columbia University   |
| ATN Registry  | \$728,000 | Q7.O                     | N/A   |
| Atypical pupillary light reflex in individuals with autism  | \$0       | Q1.Other                 | University of Missouri                                      |
| Auditory and integrative functions of the prefrontal cortex   | \$387,285 | Q2.Other                 | University of Rochester                                     |
| Auditory processing training: A novel treatment for sound hypersensitivities in autism  | \$181,154 | Q4.S.C                   | Cognionics  |
| Autism: Neuropeptide hormones and potential pathway genes   | \$185,338 | Q2.S.G                   | University of Illinois at Urbana Champaign                  |
| Autism: Social and communication predictors in siblings   | \$805,136 | Q1.L.A                   | Kennedy Krieger Institute                                   |
| Autism and Developmental Disabilities Monitoring (ADDM) network - Alabama   | \$425,000 | Q7.I                     | University of Alabama at Birmingham                         |
| Autism and Developmental Disabilities Monitoring (ADDM) network - Arizona   | \$425,000 | Q7.I                     | University of Arizona                                       |
| Autism and Developmental Disabilities Monitoring (ADDM) network - Arizona (expanded)  | \$150,000 | Q7.L                     | University of Arizona                                       |
| Autism and Developmental Disabilities Monitoring (ADDM) network - Arkansas  | \$423,626 | Q7.I                     | University of Arkansas for Medical Sciences                 |
| Autism and Developmental Disabilities Monitoring (ADDM) network - Colorado  | \$390,000 | Q7.I                     | Colorado Department of Health and Environment               |

| Project Title   | Funding     | Strategic Plan Objective | Institution                                      |
|---|-------------|--------------------------|--|
| Autism and Developmental Disabilities Monitoring (ADDM) network - Maryland                  | \$425,000   | Q7.I                     | Johns Hopkins University                         |
| Autism and Developmental Disabilities Monitoring (ADDM) network - Missouri                  | \$409,966   | Q7.I                     | Washington University in St. Louis               |
| Autism and Developmental Disabilities Monitoring (ADDM) network - Missouri (expanded)       | \$97,003    | Q7.L                     | Washington University in St. Louis               |
| Autism and Developmental Disabilities Monitoring (ADDM) network - New Jersey                | \$425,001   | Q7.I                     | University of Medicine & Dentistry of New Jersey |
| Autism and Developmental Disabilities Monitoring (ADDM) network - New Jersey (expanded)     | \$150,000   | Q7.L                     | University of Medicine & Dentistry of New Jersey |
| Autism and Developmental Disabilities Monitoring (ADDM) network - North Carolina            | \$413,169   | Q7.I                     | University of North Carolina at Chapel Hill      |
| Autism and Developmental Disabilities Monitoring (ADDM) network - South Carolina            | \$424,999   | Q7.I                     | Medical University of South Carolina             |
| Autism and Developmental Disabilities Monitoring (ADDM) network - South Carolina (expanded) | \$150,000   | Q7.L                     | Medical University of South Carolina             |
| Autism and Developmental Disabilities Monitoring (ADDM) network - Utah                      | \$417,881   | Q7.I                     | University of Utah                               |
| Autism and Developmental Disabilities Monitoring (ADDM) network - Utah (expanded)           | \$149,999   | Q7.L                     | University of Utah                               |
| Autism and Developmental Disabilities Monitoring (ADDM) network - Wisconsin                 | \$425,000   | Q7.I                     | University of Wisconsin - Madison                |
| Autism and Developmental Disabilities Monitoring (ADDM) network - Wisconsin (expanded)      | \$150,000   | Q7.L                     | University of Wisconsin - Madison                |
| Autism genetics: Homozygosity mapping and functional validation                             | \$850,815   | Q3.S.A                   | Boston Children's Hospital                       |
| Autism in older adults: A pilot, descriptive study  | \$74,000    | Q6.S.A                   | University of North Carolina at Chapel Hill      |
| Autism Intervention Research Network on Behavioral Health (AIR-B network)                   | \$1,405,365 | Q4.S.D                   | University of California, Los Angeles            |
| Autism Intervention Research Network on Physical Health (AIR-P network)                     | \$2,079,996 | Q4.S.A                   | Massachusetts General Hospital                   |
| Autism interventions and innovative evaluation of teacher quality                           | \$0         | Q5.L.C                   | Texas A & M International University             |
| Autism iPSCs for studying function and dysfunction in human neural development              | \$460,152   | Q4.S.B                   | Scripps Research Institute                       |
| Autism Registry   | \$447,613   | Q7.C                     | Group Health Cooperative                         |
| Autism Registry (supplement)  | \$20,045    | Q7.C                     | Group Health Cooperative                         |
| Autism risk, prenatal environmental exposures, and pathophysiologic markers                 | \$1,815,424 | Q3.S.C                   | University of California, Davis                  |
| Autism spectrum disorder: Birth cohort 1976-2000, epidemiology and adult status             | \$560,556   | Q6.Other                 | Mayo Clinic                                      |

| Project Title  | Funding   | Strategic Plan Objective | Institution  |
|--|-----------|--------------------------|--|
| Autism Spectrum Specialized Education and Training (ASSET)   | \$249,429 | Q5.Other                 | Florida State University   |
| Autistic traits: Life course & genetic structure   | \$531,127 | Q2.S.G                   | Washington University in St. Louis   |
| Autoimmunity against novel antigens in neuropsychiatric dysfunction  | \$320,000 | Q2.S.A                   | University of Pennsylvania   |
| Bayesian variable selection in generalized linear models with missing variables  | \$95,377  | Q2.Other                 | Hunter College (City University of New York)   |
| BDNF and the restoration of synaptic plasticity in fragile (and autism   | \$470,063 | Q2.S.D                   | University of California, Irvine   |
| Behavioral, fMRI, and anatomical MRI investigations of<br>attention in autism  | \$47,114  | Q2.Other                 | Massachusetts Institute of Technology  |
| Sehavioral and neural processing of faces and expressions in nonhuman primates   | \$435,600 | Q2.Other                 | Emory University   |
| Behavioral treatment through in-home telehealth for young children with autism   | \$299,886 | Q5.L.A                   | University of Iowa   |
| Biomarkers for autism and for gastrointestinal and sleep problems in autism  | \$0       | Q1.L.A                   | Yale University  |
| Siomarkers in Autism of Aripiprazole and Risperidone<br>reatment (BAART)   | \$634,243 | Q4.S.F                   | Medical University of South Carolina   |
| Birth to kindergarten professional preparation: Inclusive ervices for children with Autism Spectrum Disorders                | \$299,997 | Q5.Other                 | University of North Carolina at Greensboro   |
| Brain bases of language deficits in SLI and ASD  | \$614,180 | Q2.Other                 | Massachusetts Institute of Technology  |
| BRIGE: Emotion mapping of children through human-<br>obot interaction and affective computing                                | \$174,583 | Q2.Other                 | University of Louisville Research Foundation Inc   |
| Building a selective inhibitory control tone in autism: An TMS study   | \$219,780 | Q4.Other                 | University of Louisville   |
| CAREER: Dissecting the neural mechanisms for face letection  | \$0       | Q2.Other                 | California Institute of Technology   |
| CAREER: Enabling community-scale modeling of human ehavior and its application to healthcare                                 | \$106,218 | Q1.Other                 | Cornell University   |
| CAREER: Integrative behavioural and leurophysiological studies of normal and autistic logition using video game environments | \$0       | Q2.Other                 | Cornell University   |
| CAREER: Statistical models and classification of time-<br>varying shape  | \$8,000   | Q2.Other                 | University of Utah   |
| AREER: The role of prosody in word segmentation nd lexical access  | \$0       | Q2.Other                 | Michigan State University  |
| CAREER: Typical and atypical development of brain egions for theory of mind  | \$86,848  | Q2.Other                 | Massachusetts Institute of Technology  |
| Caspr2 as an autism candidate gene: A proteomic approach to function & structure   | \$312,000 | Q2.Other                 | University of Medicine & Dentistry of New Jersey -<br>Robert Wood Johnson Medical School |

| Project Title   | Funding     | Strategic Plan Objective | Institution  |
|---|-------------|--------------------------|--|
| CDI-Type I: Understanding regulation of visual attention nautism through computational and robotic modeling           | \$0         | Q1.L.B                   | Yale University  |
| CDI-TYPE II: From language to neural representations of meaning   | \$0         | Q2.Other                 | Carnegie Mellon University                                     |
| Cell adhesion molecules in autism: A whole-brain study of genetic mouse models  | \$485,438   | Q2.Other                 | Cold Spring Harbor Laboratory                                  |
| Cell adhesion molecules in CNS development  | \$534,562   | Q2.Other                 | The Scripps Research Institute - California                    |
| Cell specific genomic imprinfing during cortical development and in mouse models                                      | \$328,975   | Q3.S.J                   | Harvard University   |
| Cellular and genetic correlates of increased head size in autism spectrum disorder                                    | \$393,455   | Q4.S.B                   | Yale University  |
| Cellular density and morphology in the autistic temporal numan cerebral cortex  | \$363,672   | Q2.Other                 | University of California, Davis                                |
| Center for Education and Research on Mental Health Therapeutics   | \$0         | Q5.Other                 | Rutgers, The State University of New Jersey - New Brunswick    |
| Center on Secondary Education for Students with Autism Spectrum Disorders (CSESA)                                     | \$2,000,903 | Q4.L.D                   | University of North Carolina at Chapel Hill                    |
| Centers for Autism and Developmental Disabilities<br>Research and Epidemiology (CADDRE) - California                  | \$1,020,000 | Q3.L.D                   | Kaiser Foundation Research Institute                           |
| Centers for Autism and Developmental Disabilities<br>Research and Epidemiology (CADDRE) - Colorado                    | \$1,110,000 | Q3.L.D                   | Colorado Department of Health and Environment                  |
| Centers for Autism and Developmental Disabilities<br>Research and Epidemiology (CADDRE) - Data<br>Coordinating Center | \$900,000   | Q3.L.D                   | Michigan State University                                      |
| Centers for Autism and Developmental Disabilities Research and Epidemiology (CADDRE) - Georgia                        | \$1,451,838 | Q3.L.D                   | Centers for Disease Control and Prevention (CDC)               |
| Centers for Autism and Developmental Disabilities<br>Research and Epidemiology (CADDRE) - Maryland                    | \$1,520,000 | Q3.L.D                   | Johns Hopkins University                                       |
| Centers for Autism and Developmental Disabilities Research and Epidemiology (CADDRE) - North Carolina                 | \$1,020,001 | Q3.L.D                   | University of North Carolina at Chapel Hill                    |
| Centers for Autism and Developmental Disabilities<br>Research and Epidemiology (CADDRE) - Pennsylvania                | \$1,020,000 | Q3.L.D                   | University of Pennsylvania/Children's Hospital of Philadelphia |
| Cerebellar modulation of frontal cortical function  | \$302,306   | Q2.Other                 | University of Memphis  |
| Characterization of the pathological and biochemical markers that correlate to the clinical features of autism        | \$0         | Q2.Other                 | Research Foundation for Mental Hygiene, Inc.                   |
| Characterization of the pathological and biochemical markers that correlate to the clinical features of autism        | \$0         | Q2.Other                 | Research Foundation for Mental Hygiene, Inc.                   |
| Characterization of the pathological and biochemical markers that correlate to the clinical features of autism        | \$0         | Q2.Other                 | Research Foundation for Mental Hygiene, Inc.                   |
| Characterization of the schizophrenia-associated 3q29 deletion in mouse   | \$404,198   | Q4.S.B                   | Emory University   |

| Project Title  | Funding     | Strategic Plan Objective | Institution  |
|--|-------------|--------------------------|--|
| Characterizing mechanistic heterogeneity across ADHD and autism  | \$611,788   | Q2.Other                 | Oregon Health & Science University                               |
| Characterizing the genetic systems of autism through multi-disease analysis  | \$524,280   | Q2.S.G                   | Harvard Medical School   |
| Characterizing the genetic systems of autism through multi-disease analysis (supplement)   | \$120,328   | Q2.S.G                   | Harvard Medical School   |
| Clinical and behavioral phenotyping of autism and related disorders  | \$2,241,297 | Q1.L.B                   | National Institutes of Health                                    |
| Cognitive control of emotion in autism   | \$102,638   | Q2.Other                 | University of Pittsburgh   |
| Collaboration of Autism Specialists Training (COAST)<br>Program  | \$200,000   | Q5.Other                 | California State Los Angeles University Auxiliary Services, Inc. |
| Collaborative Adolescent Autism Teacher Training (CAATT)   | \$198,178   | Q5.Other                 | University of Georgia  |
| Collaborative partnerships   | \$200,000   | Q5.L.C                   | San Francisco State University                                   |
| Collaborative Personnel Preparation in Autism (COPPA)  | \$242,214   | Q5.Other                 | University of Georgia  |
| Collaborative research: Computational behavioral science: Modeling, analysis, and visualization of social and communicative behavior | \$600,000   | Q1.L.B                   | University of Southern California                                |
| Collaborative research: Computational behavioral science: Modeling, analysis, and visualization of social and communicative behavior | \$1,314,749 | Q1.L.B                   | Georgia Tech Research Corporation                                |
| Collaborative research: Computational behavioral science: Modeling, analysis, and visualization of social and communicative behavior | \$600,000   | Q1.L.B                   | Massachusetts Institute of Technology                            |
| Collaborative research: Computational behavioral science: Modeling, analysis, and visualization of social and communicative behavior | \$600,658   | Q1.L.B                   | Carnegie Mellon University                                       |
| Collaborative research: Computational behavioral science: Modeling, analysis, and visualization of social and communicative behavior | \$313,753   | Q1.L.B                   | Trustees of Boston University                                    |
| Collaborative research: Computational behavioral science: Modeling, analysis, and visualization of social and communicative behavior | \$600,000   | Q1.L.B                   | University of Illinois at Urbana Champaign                       |
| Collaborative research: Learning complex auditory categories   | \$0         | Q2.Other                 | Carnegie Mellon University                                       |
| Collaborative research: Learning complex auditory categories   | \$0         | Q2.Other                 | University of Arizona  |
| Collaborative research: Modeling perception and memory: Studies in priming   | \$0         | Q2.Other                 | University of California, San Diego                              |
| Collaborative research: RUI: Perceptual pick-up processes in interpersonal coordination  | \$0         | Q2.Other                 | College of the Holy Cross  |
| Communication, autism, and technology  | \$0         | Q5.Other                 | University of Kansas Medical Center Research Institute, Inc.     |

| Project Title  | Funding   | Strategic Plan Objective | Institution  |
|--|-----------|--------------------------|--|
| Comparison of two comprehensive treatment models for preschool-aged children with autism spectrum disorders and their families | \$0       | Q4.L.D                   | University of North Carolina at Chapel Hill                              |
| Complex genetic architecture of chromosomal aberrations in autism  | \$92,917  | Q3.L.B                   | Massachusetts General Hospital   |
| Components of limited activity monitoring in toddlers with ASD   | \$82,896  | Q1.L.B                   | Yale University  |
| Comprehensive autism program using Strategies for<br>Teaching based on Autism Research   | \$0       | Q4.S.D                   | Portland State University  |
| Comprehensive clinical phenotyping and genetic mapping for the discovery of autism susceptibility genes.                       | \$0       | Q7.Other                 | Nationwide Children's Hospital   |
| Comprehensive support for families with autism: A parent-based mentoring approach  | \$300,000 | Q5.S.C                   | University of Colorado Denver  |
| Comprehensive systems change through RTI and SW-PBS  | \$672,525 | Q5.L.C                   | Colorado Department of Education - Exceptional Studen<br>Leadership Unit |
| Computational characterization of language use in autism spectrum disorder   | \$738,723 | Q2.Other                 | Oregon Health & Science University                                       |
| Computer Assisted Autism Care (CAAC)   | \$490,038 | Q1.S.B                   | Indiana University-Purdue University Indianapolis                        |
| Consortium for promoting cross-linguistic understanding of communication disabilities in children                              | \$0       | Q5.Other                 | East Tennessee State University  |
| Contingency analyses of observing and attending in intellectual disabilities   | \$276,181 | Q4.S.G                   | University of Massachusetts Medical School                               |
| Controlled trial of sertraline in young children with Fragile X Syndrome   | \$285,970 | Q4.L.A                   | University of California, Davis  |
| Controlling interareal gamma coherence by optogenetics, pharmacology and behavior  | \$84,775  | Q2.Other                 | Massachusetts Institute of Technology                                    |
| Core A: Administrative Services  | \$255,539 | Q7.Other                 | Vanderbilt University Medical Center                                     |
| Core B: Outreach and Translation (supplement)  | \$30,783  | Q7.Other                 | University of California, Davis  |
| Core C: Analytical Core (supplement)   | \$30,784  | Q7.Other                 | University of California, Davis  |
| Core D: Clinical Neuroscience Services   | \$207,706 | Q7.Other                 | Vanderbilt University Medical Center                                     |
| Core D: Molecular Genomics Core (supplement)   | \$30,783  | Q7.Other                 | University of California, Davis  |
| Core E: Participant Recruitment & Assessment Services  | \$278,269 | Q7.Other                 | Vanderbilt University Medical Center                                     |
| Core E: Statistical Analysis Core (supplement)   | \$30,783  | Q7.Other                 | University of California, Davis  |
| Cortactin and spine dysfunction in fragile X   | \$32,875  | Q2.S.D                   | University of California, Irvine   |
| Cortical circuit changes and mechanisms in a mouse model of fragile X syndrome   | \$278,656 | Q2.S.D                   | University of Texas Southwestern Medical Center                          |
| Cortical dynamics in autism  | \$52,190  | Q2.Other                 | New York University  |
| Creating the Developmental-Behavioral Pediatrics Research Network  | \$250,000 | Q7.N                     | Children's Hospital of Philadelphia                                      |

| Project Title   | Funding   | Strategic Plan Objective | Institution  |
|---|-----------|--------------------------|--|
| Cross-sector patterns of treatment for children with autism   | \$65,000  | Q5.Other                 | University of Chicago  |
| Cultural equivalence of autism assessment for Latino children   | \$74,250  | Q1.S.B                   | University of Wisconsin - Madison  |
| Customized representations promote language learning for older learners with ASD  | \$76,500  | Q4.S.G                   | University of Delaware   |
| Decoding 'what' and 'who' in the auditory system of children with autism spectrum disorders   | \$197,500 | Q2.Other                 | Stanford University  |
| Defining the electrophysiological dynamics of the default mode network  | \$146,025 | Q2.Other                 | University of Washington   |
| Delayed motor learning in autism  | \$356,598 | Q4.Other                 | Brandeis University  |
| Developing a 3D-based virtual learning environment for use in schools to enhance the social competence of youth with autism spectrum disorder | \$0       | Q4.L.D                   | University of Missouri   |
| Developing a novel treatment for restricted inflexible behavior   | \$178,061 | Q4.Other                 | University of Florida  |
| Developing a school-based social competence intervention (SCI)  | \$0       | Q4.L.D                   | University of Missouri   |
| Developing novel automated apparatus for studying battery of social behaviors in mutant mouse models for autism                               | \$0       | Q2.Other                 | Weizmann Institute of Science  |
| Developing the autism model of implementation for ASD community providers   | \$185,333 | Q5.L.A                   | San Diego State University   |
| Developing treatment, treatment validation, and treatment scope in the setting of an autism clinical trial                                    | \$0       | Q4.L.A                   | University of Medicine & Dentistry of New Jersey -<br>Robert Wood Johnson Medical School |
| Developing treatment, treatment validation, and treatment scope in the setting of an autism clinical trial                                    | \$0       | Q4.L.A                   | University of Medicine & Dentistry of New Jersey   |
| Developing treatment, treatment validation, and treatment scope in the setting of an autism clinical trial                                    | \$0       | Q4.L.A                   | University of Medicine & Dentistry of New Jersey -<br>Robert Wood Johnson Medical School |
| Developmental social neuroscience in infants at-risk for autism   | \$181,367 | Q1.L.C                   | Yale University  |
| Development of a high-content neuronal assay to screen therapeutics for the treatment of cognitive dysfunction in autism spectrum disorders   | \$0       | Q4.S.B                   | Massachusetts Institute of Technology  |
| Development of an executive function-based intervention for ASD   | \$255,420 | Q4.Other                 | Children's Research Institute  |
| Development of an internet-based parent training intervention for children with ASD   | \$0       | Q5.L.A                   | Michigan State University  |
| Development of an intervention to enhance the social competencies of children with Asperger's/high functioning autism spectrum disorders      | \$0       | Q4.L.D                   | University at Buffalo, The State University of New York                                  |
| Development of a novel biomarker test for autism risk screening   | \$336,569 | Q1.S.A                   | Xen Biofluidx, Inc.  |

| Project Title  | Funding     | Strategic Plan Objective | Institution   |
|--|-------------|--------------------------|---|
| Development of a social and communication intervention for preschoolers with autism                                      | \$499,966   | Q4.L.D                   | Kennedy Krieger Institute                                 |
| Development of face processing expertise   | \$351,984   | Q2.Other                 | University of Toronto                                     |
| Development of face processing in infants with autism spectrum disorders   | \$409,613   | Q1.L.B                   | Yale University   |
| Development of intermodal perception of social events:<br>Infancy to childhood   | \$310,903   | Q1.L.C                   | Florida International University                          |
| Development of the functional neural systems for face expertise  | \$507,685   | Q2.Other                 | University of California, San Diego                       |
| Development of ventral stream organization   | \$137,338   | Q2.Other                 | University of Pittsburgh                                  |
| Diffusion tensor MR spectroscopic imaging in human brain   | \$203,715   | Q2.Other                 | University of New Mexico Health Sciences Center           |
| Dimensions of mind perception  | \$0         | Q2.Other                 | Harvard University  |
| Discordant monozygotic twins as a model for genetic-<br>environmental interaction in autism                              | \$0         | Q3.S.J                   | Kennedy Krieger Institute                                 |
| Discordant monozygotic twins as a model for genetic-<br>environmental interaction in autism                              | \$0         | Q3.S.J                   | Johns Hopkins University                                  |
| Dissecting the neural control of social attachment   | \$764,775   | Q4.S.B                   | University of California, San Francisco                   |
| Dissertation research: Translating diagnoses across cultures: Expertise, autism, and therapeutics of the self in Morocco | \$0         | Q1.Other                 | Columbia University                                       |
| Divergent biases for conspecifics as early markers for autism spectum disorders  | \$269,604   | Q1.L.A                   | New York University                                       |
| Do access barriers to autism care persist despite autism insurance mandate?  | \$295,367   | Q5.S.A                   | Pennsylvania State University                             |
| Do animations facilitate symbol understanding in children with autism?   | \$197,259   | Q4.S.G                   | Northeastern University                                   |
| Doctoral Training in Research, Autism, and Interdisciplinary Leadership (TRAIL)  | \$249,839   | Q7.K                     | Florida State University                                  |
| Dual modulators of GABA-A and Alpha7 nicotinic receptors for treating autism   | \$615,849   | Q2.Other                 | University of California, Irvine                          |
| Dynamic regulation of Shank3 and ASD   | \$646,316   | Q2.Other                 | Johns Hopkins University                                  |
| Dysregulation of mTOR signaling in fragile X syndrome  | \$415,000   | Q2.S.D                   | Albert Einstein College of Medicine of Yeshiva University |
| Dysregulation of mTOR signaling in fragile X syndrome (supplement)   | \$72,034    | Q2.S.D                   | Albert Einstein College of Medicine of Yeshiva University |
| Dysregulation of protein synthesis in fragile X syndrome   | \$1,117,731 | Q2.S.D                   | National Institutes of Health                             |
| Early detection of pervasive developmental disorders   | \$992,563   | Q1.S.A                   | University of Connecticut                                 |
| Early intervention/early childhood special education autism specialization   | \$250,000   | Q5.Other                 | University Of Pittsburgh                                  |

| Project Title  | Funding   | Strategic Plan Objective | Institution                                 |
|--|-----------|--------------------------|---|
| Early pharmacotherapy guided by biomarkers in autism (supplement)                                  | \$260,000 | Q4.S.F                   | Wayne State University                      |
| Early quantitative characterization of reciprocal social behavior                                  | \$590,421 | Q1.L.C                   | Washington University in St. Louis          |
| Early Response Learning Initiative (EARLI)   | \$0       | Q5.Other                 | University of Virginia                      |
| Early social and emotional development in toddlers at genetic risk for autism                      | \$369,179 | Q1.L.A                   | University of Pittsburgh                    |
| East Carolina University Pathways  | \$0       | Q5.Other                 | East Carolina University                    |
| EEG-based assessment of functional connectivity in autism  | \$175,042 | Q2.Other                 | Kennedy Krieger Institute                   |
| EEG complexity trajectory as an early biomarker for autism   | \$261,000 | Q1.L.A                   | Boston Children's Hospital                  |
| Effectiveness and implementation of a mental health intervention for ASD                           | \$804,837 | Q5.L.A                   | University of California, San Diego         |
| Effect of paternal age on mutational burden and behavior in mice                                   | \$222,000 | Q2.Other                 | University of North Carolina at Chapel Hill |
| Effects of chronic intranasal oxytocin   | \$568,507 | Q4.S.B                   | University of California, Davis             |
| Effects of therapeutic horseback riding on children and adolescents with autism spectrum disorders | \$298,618 | Q4.S.C                   | University of Colorado Denver               |
| Efficacy and sustainability of the STAR program  | \$0       | Q4.S.D                   | University of Pennsylvania                  |
| Efficacy of a parent-mediated intervention for one-year-<br>olds at risk for autism                | \$685,483 | Q4.L.D                   | University of North Carolina at Chapel Hill |
| Efficacy of a qigong massage methodology for children with ASD aged 3-11 years                     | \$242,590 | Q4.L.D                   | Western Oregon University                   |
| Efficacy of the home TEACCHing program for toddlers with autism                                    | \$299,995 | Q4.L.D                   | University of North Carolina at Chapel Hill |
| Electronic location reporting for individuals with cognitive disabilities                          | \$561,963 | Q4.S.H                   | Intellispeak, LLC                           |
| Electrophysiological correlates of cognitive control in autism                                     | \$130,898 | Q1.L.B                   | University of California, Davis             |
| Electrophysiological response to executive control training in autism                              | \$89,670  | Q2.Other                 | University of Washington                    |
| Elucidating the function of class 4 semaphorins in GABAergic synapse formation                     | \$336,922 | Q2.Other                 | Brandeis University                         |
| Elucidating the function of class 4 semaphorins in GABAergic synapse formation (supplement)        | \$23,015  | Q2.Other                 | Brandeis University                         |
| Elucidation of the developmental role of Jakmip1, and autism-susceptibility gene                   | \$31,474  | Q2.Other                 | University of California, Los Angeles       |
| Emergence and stability of autism in fragile X syndrome  | \$358,000 | Q2.S.D                   | University of South Carolina                |
| Emergence and stability of autism in fragile X syndrome (supplement)                               | \$87,314  | Q2.S.D                   | University of South Carolina                |

| Project Title   | Funding     | Strategic Plan Objective | Institution  |
|---|-------------|--------------------------|--|
| Engrailed genes and cerebellum morphology, spatial gene expression and circuitry  | \$470,003   | Q2.Other                 | Sloan-Kettering Institute for Cancer Research              |
| Engrailed targets and the control of synaptic circuits in<br>Drosophila   | \$352,100   | Q2.Other                 | University of Puerto Rico Medical Sciences Campus          |
| Environment, the perinatal epigenome, and risk for autism and related disorders   | \$1,976,271 | Q3.S.J                   | Johns Hopkins University                                   |
| Environmentally Triggered Neurodevelopmental<br>Disorders: Focus on Endocrine Disruption and Sex<br>Differences in Autism, ADHD, and Schizophrenia                                      | \$3,000     | Q7.K                     | University of Arkansas for Medical Sciences                |
| EPA/NIEHS Center for Children's Environmental Health (CCEH) at UC Davis   | \$0         | Q3.S.C                   | University of California, Davis                            |
| Epigenetic and transcriptional dysregulation in autism spectrum disorder  | \$629,805   | Q3.S.J                   | University of California, Los Angeles                      |
| Epigenetic biomarkers of autism in human placenta   | \$0         | Q1.L.A                   | University of California, Davis                            |
| Epileptiform discharges and its relation to cognition and behavior in children with autism spectrum disorders   | \$0         | Q2.S.E                   | Vanderbilt University                                      |
| E-Quality Measures development  | \$450,000   | Q1.S.C                   | MITRE  |
| Evaluating and enhancing driving ability among teens with autism spectrum disorder (ASD)  | \$0         | Q6.L.A                   | University of Iowa   |
| Evaluating and enhancing driving ability among teens with autism spectrum disorder (ASD)  | \$0         | Q6.L.A                   | University of Virginia                                     |
| Evaluating and enhancing driving skills of individuals with Asperger's and high-functioning autism  | \$0         | Q6.L.A                   | University of Virginia                                     |
| Evaluating the efficacy of the school-based Social<br>Competence Intervention for Adolescents (SCI-A) with<br>high functioning autism   | \$797,258   | Q4.L.D                   | University of Missouri                                     |
| Evaluating the impact of early intervention services on young children with autism spectrum disorders and their families: A state systems approach                                      | \$300,000   | Q5.S.C                   | Health Research, Inc.; New York State Department of Health |
| Evaluating the time-dependent unfolding of social interactions in autism  | \$252,622   | Q2.Other                 | University of Cincinnati                                   |
| Evaluation of a comprehensive community-based intervention for toddlers with ASD  | \$707,793   | Q4.S.D                   | University of Oklahoma                                     |
| Examination of the mGluR-mTOR pathway for the identification of potential therapeutic targets to treat fragile X  | \$0         | Q4.S.B                   | University of Pennsylvania                                 |
| Examination of the use of a Spanish version of the Online and Applied System for Intervention Skills (OASIS) Training Program with parents of children with an autism spectrum disorder | \$200,000   | Q5.L.A                   | University of Kansas Medical Center                        |
| Examining the efficacy of classroom pivotal response leaching in classroom environments   | \$653,534   | Q4.S.D                   | Rady Children's Hospital Health Center                     |

| Project Title   | Funding     | Strategic Plan Objective | Institution   |
|---|-------------|--------------------------|---|
| Excessive cap-dependent translation as a molecular mechanism underlying ASD   | \$0         | Q2.Other                 | New York University   |
| Executive function in children with typical and atypical language abilities   | \$564,177   | Q2.Other                 | University of Wisconsin - Madison                               |
| Experience and cognitive development in infancy   | \$102,038   | Q2.Other                 | University of California, Davis                                 |
| Experimental evaluation of the Online and Applied System for Intervention Skills (OASIS) training program using video-conferencing for parents of children with an autism spectrum disorder | \$0         | Q5.L.A                   | University of Kansas Medical Center Research Institute Inc.     |
| Exploring interactions between folate and environmental risk factors for autism   | \$208,782   | Q3.S.J                   | University of California, Davis                                 |
| Exploring the neuronal phenotype of autism spectrum disorders using induced pluripotent stem cells  | \$366,529   | Q4.S.B                   | Stanford University   |
| Exploring the uncanny valley  | \$0         | Q2.Other                 | Carnegie Mellon University                                      |
| Extended tracking of single synaptic proteins with upconverting nanoparticles   | \$10,819    | Q2.Other                 | University of California; Lawrence Berkeley National Laboratory |
| Extraction of functional subnetworks in autism using multimodal MRI   | \$360,294   | Q1.L.B                   | Yale University   |
| Face perception: Mapping psychological spaces to neural responses   | \$0         | Q2.Other                 | Stanford University   |
| Facilitating employment for youth with autism: A replication study of an internship model to identify evidence based practices  | \$499,995   | Q5.L.B                   | Virginia Commonwealth University                                |
| Factors associated with positive outcomes for children<br>and youth with autism: Secondary analysis of data from<br>SEELS and NLTS2   | \$342,223   | Q4.L.D                   | SRI International   |
| Family studies of sensorimotor and neurocognitive heterogeneity in autism spectrum disorders (ASD)  | \$0         | Q1.L.B                   | University of Texas Southwestern Medical Center                 |
| cMRI in infants at high risk for autism   | \$584,566   | Q1.L.A                   | Washington University in St. Louis                              |
| Finding and keeping the best: A rural regional<br>partnership for recruiting and retaining teachers for<br>children with low incidence disabilities   | \$200,000   | Q5.Other                 | California State University Chico Research Foundation           |
| Florida's state personnel development grant   | \$0         | Q5.Other                 | Florida Department of Education                                 |
| FOXP2-regulated signaling pathways critical for higher cognitive functions  | \$248,921   | Q3.Other                 | University of Texas Southwestern Medical Center                 |
| FOXP2-regulated signaling pathways critical for higher cognitive functions (supplement)   | \$66,686    | Q3.Other                 | University of Texas Southwestern Medical Center                 |
| Functional analysis of rare variants in genes associated with autism  | \$146,625   | Q4.S.B                   | Yale University   |
| Functional anatomy of face processing in the primate<br>prain   | \$1,660,304 | Q2.Other                 | National Institutes of Health                                   |

| Project Title  | Funding     | Strategic Plan Objective | Institution                                 |
|--|-------------|--------------------------|---|
| Functional circuit disorders of sensory cortex in ASD and RTT  | \$254,976   | Q2.S.D                   | University of Pennsylvania                  |
| Functional imaging of flexibility in autism: Informed by SLC6A4  | \$132,748   | Q2.S.G                   | Children's Hospital of Philadelphia         |
| Functional neuroimaging of attention in autism   | \$192,365   | Q2.S.E                   | Children's Hospital of Philadelphia         |
| Functional neuroimaging of psychopharmacologic intervention for autism   | \$162,369   | Q2.L.B                   | University of North Carolina at Chapel Hill |
| Functional properties and directed connectivity in the face-processing network   | \$55,670    | Q2.Other                 | Yale University                             |
| Functional role of IL-6 in fetal brain development and abnormal behavior   | \$42,232    | Q2.Other                 | California Institute of Technology          |
| Function and structure adaptations in forebrain development  | \$541,770   | Q2.Other                 | University of Southern California           |
| Function of neurexins  | \$473,710   | Q2.Other                 | Stanford University                         |
| Futures Project: Preparing special educators to use evidence-based practices to support desirable futures for students with significant disabilities   | \$0         | Q5.Other                 | Portland State University                   |
| GABRB3 and placental vulnerability in ASD  | \$642,258   | Q2.S.A                   | Stanford University                         |
| Gene dosage imbalance in neurodevelopmental disorders  | \$689,795   | Q1.S.E                   | Weis Center for Research - Geisinger Clinc  |
| Gene dosage imbalance in neurodevelopmental disorders (supplement)   | \$195,000   | Q1.S.E                   | Weis Center for Research - Geisinger Clinc  |
| Gene-environment interactions in an autism birth cohort  | \$3,012,046 | Q3.L.D                   | Columbia University                         |
| Genetic and developmental analyses of fragile X mental retardation protein   | \$438,391   | Q2.S.D                   | Vanderbilt University Medical Center        |
| Genetic dissection of restricted repetitive behavior (RRB)   | \$177,736   | Q2.S.G                   | Seattle Children's Hospital                 |
| Genetic epidemiology of complex traits   | \$559,192   | Q3.L.B                   | National Institutes of Health               |
| Genome-wide identification of variants affecting early human brain development   | \$611,005   | Q2.S.G                   | University of North Carolina at Chapel Hill |
| Genomic and epigenomic effects of large CNV in neurons from iPSC   | \$2,355,000 | Q2.S.G                   | Stanford University                         |
| Genotype-phenotype relationships in fragile X families   | \$612,413   | Q2.S.D                   | University of California, Davis             |
| Glial control of neuronal receptive ending morphology  | \$418,275   | Q2.Other                 | The Rockefeller University                  |
| Graduate preparation for transition and instructional leadership for services to students with low incidence disabilities: Emphasis on academic and social success in LRE through implementation of evidence-based practices and instructional programming | \$199,996   | Q5.Other                 | University of North Texas                   |
| Grammatical development in boys with fragile X syndrome and autism   | \$148,500   | Q2.S.D                   | University of Wisconsin - Madison           |

| Project Title  | Funding   | Strategic Plan Objective | Institution                              |
|--|-----------|--------------------------|--|
| HCC: Medium: Automatic detection of atypical patterns in cross-modal affect  | \$0       | Q1.L.B                   | Oregon Health & Science University       |
| HCC:Small:Computational studies of social nonverbal communication  | \$0       | Q2.Other                 | University of Southern California        |
| HCC-Medium: Personalized socially-assistive human-<br>robot interaction: Applications to autism spectrum<br>disorder | \$19,420  | Q4.Other                 | University of Southern California        |
| High-throughput DNA sequencing method for probing the connectivity of neural circuits at single-neuron resolution    | \$464,475 | Q2.Other                 | Cold Spring Harbor Laboratory            |
| High throughput screen for small molecule probes for neural network development                                      | \$405,000 | Q2.Other                 | Johns Hopkins University                 |
| High throughput sequencing of autism spectrum disorder (ASD) endophenotypes  | \$39,432  | Q2.S.G                   | Baylor College of Medicine               |
| Homeostatic regulation of presynaptic function by dendritic mTORC1   | \$32,747  | Q2.Other                 | University of Michigan                   |
| How autism affects speech understanding in multitalker environments  | \$0       | Q2.Other                 | University of Maryland, College Park     |
| Human neurobehavioral phenotypes associates with the extended PWS/AS domain  | \$618,967 | Q3.S.J                   | Baylor College of Medicine               |
| Hypocholesterolemic autism spectrum disorder   | \$84,549  | Q3.L.B                   | National Institutes of Health            |
| Identification of candidate genes at the synapse in autism spectrum disorders  | \$168,839 | Q2.Other                 | Yale University                          |
| Identification of genetic pathways that regulate neuronal circuits in C. elegans                                     | \$47,114  | Q2.Other                 | University of California, San Diego      |
| Identification of lipid biomarkers for autism  | \$0       | Q1.L.A                   | Massachusetts General Hospital           |
| Identifying markers for treatment response to cognitive training in autism spectrum disorders                        | \$153,999 | Q4.S.F                   | University of California, Davis          |
| Identifying neurobiological markers of the broader autism phenotype  | \$0       | Q1.L.B                   | University of Melbourne                  |
| Identifying therapeutic targets for autism using Shank3-<br>deficient mice   | \$484,667 | Q4.S.B                   | Mount Sinai School of Medicine           |
| Identifying therapeutic targets for autism using Shank3-<br>deficient mice (supplement)                              | \$121,077 | Q4.S.B                   | Mount Sinai School of Medicine           |
| Imaging PTEN-induced changes in adult cortical structure and function in vivo  | \$300,156 | Q2.Other                 | University of California, Los Angeles    |
| Imaging signal transduction in single dendritic spines   | \$382,200 | Q2.Other                 | Duke University                          |
| Impact of SynGAP1 mutations on synapse maturation and cognitive development  | \$789,981 | Q2.Other                 | The Scripps Research Institute - Florida |
| Impacts and State utilization of HCBS waiver services for families and children with autism                          | \$200,000 | Q5.Other                 | Towson University                        |
|  |           |                          |  |

| Project Title   | Funding   | Strategic Plan Objective | Institution                                    |
|---|-----------|--------------------------|--|
| Impairments of theory of mind disrupt patterns of brain activity  | \$321,000 | Q2.Other                 | Massachusetts Institute of Technology          |
| Improved early identification of autism in Latino children  | \$297,752 | Q5.L.A                   | Georgetown University                          |
| Improving social-communication, literacy, and adaptive behaviors for young children with autism spectrum disorders                    | \$745,000 | Q4.L.D                   | University of Kansas                           |
| Improving speech-language pathology services to dhildren with severe disabilities through pre-professional and professional training  | \$0       | Q5.Other                 | Western Carolina University                    |
| Improving synchronization and functional connectivity in autism spectrum disorders through plasticity-induced rehabilitation training | \$0       | Q4.S.F                   | University of California, San Diego            |
| Infants' developing representation of object function   | \$0       | Q2.Other                 | University of California, Davis                |
| Infants at risk of autism: A longitudinal study   | \$587,150 | Q1.L.A                   | University of California, Davis                |
| Influence of attention and arousal on sensory abnormalities in ASD  | \$232,500 | Q2.Other                 | University of California, San Diego            |
| Inhibitory mechanisms for sensory map plasticity in cerebral cortex   | \$328,644 | Q2.Other                 | University of California, Berkeley             |
| Innovative Adaptation & Dissemination of CER Products: Autism (iADAPT-ASD)  | \$0       | Q5.L.A                   | University of Southern California              |
| Insight into MeCP2 function raises therapeutic possibilities for Rett syndrome  | \$290,087 | Q4.S.B                   | University of California, San Francisco        |
| INT2-Large: Collaborative research: Developing social robots  | \$0       | Q1.Other                 | University of California, San Diego            |
| INT2-Large: Collaborative research: Developing social robots  | \$0       | Q1.Other                 | University of Miami                            |
| Integrative functions of the planum temporale   | \$440,810 | Q2.Other                 | University of California, Irvine               |
| Integrative functions of the planum temporale (supplement)  | \$34,768  | Q2.Other                 | University of California, Irvine               |
| Intelligent data capture and assessment technology for developmental disabilities   | \$744,906 | Q1.S.B                   | Caring Technologies, Inc.                      |
| Interdisciplinary training for autism researchers   | \$353,885 | Q7.K                     | University of California, Davis                |
| Intersensory perception of social events: Typical and atypical development  | \$134,355 | Q1.L.C                   | Florida International University               |
| Intranasal oxytocin for the treatment of children and adolescents with autism spectrum disorders (ASD)                                | \$0       | Q4.S.C                   | Holland Bloorview Kids Rehabilitation Hospital |
| Investigating brain connectivity in autism at the whole-brain level   | \$88,508  | Q2.Other                 | California Institute of Technology             |
| Investigating brain connectivity in autism at the whole-brain level   | \$249,001 | Q2.Other                 | Indiana University                             |
| Investigating the homeostatic role of MeCP2 in mature brain   | \$35,832  | Q2.S.D                   | Baylor College of Medicine                     |

| Project Title  | Funding   | Strategic Plan Objective | Institution  |
|--|-----------|--------------------------|--|
| Investigating the role of CNTNAP2 gene in vocal learning in mutant songbirds                                       | \$249,063 | Q4.S.B                   | University of Massachusetts Medical School                   |
| Investigation of DUF1220 domains in human brain function and disease   | \$376,668 | Q3.L.B                   | University of Colorado Denver                                |
| Investigation of protocadherin-10 in MEF2- and FMRP-mediated synapse elimination                                   | \$53,942  | Q2.S.D                   | University of Texas Southwestern Medical Center              |
| Investigation of sex differences associated with autism candidate gene, Cyfip1                                     | \$32,413  | Q2.S.B                   | University of California, Los Angeles                        |
| In vivo function of neuronal activity-induced MeCP2 phosphorylation  | \$292,721 | Q3.S.J                   | University of Wisconsin - Madison                            |
| In vivo targeted gene silencing, a novel method  | \$192,500 | Q2.Other                 | Indiana University-Purdue University Indianapolis            |
| iPrompt to improve teaching students with ASD  | \$305,814 | Q4.L.D                   | HandHold Adaptive, LLC                                       |
| iSKILLS: The audio/video guidance repository for life skills   | \$398,120 | Q4.L.D                   | University of Georgia  |
| Joint attention mediated learning intervention for toddlers with autism spectrum disorders and their families      | \$879,424 | Q4.S.D                   | Indiana University   |
| Kansas University: Autism and Early Childhood<br>Education Professionals (KU-ACE)                                  | \$200,000 | Q5.Other                 | University of Kansas Medical Center Research Institute, Inc. |
| Kinetics of drug macromolecule complex formation   | \$712,921 | Q2.Other                 | University of California, San Diego                          |
| KSU student chapter of the IEEE EMBS as a focal point for senior design projects to aid children with disabilities | \$0       | Q5.Other                 | Kansas State University                                      |
| Language development and outcome in children with autism   | \$397,425 | Q1.L.C                   | University of Connecticut                                    |
| Language development in fragile X syndrome   | \$584,381 | Q2.S.D                   | University of California, Davis                              |
| Leadership Education in Neurodevelopmental Disabilities  | \$2,500   | Q1.S.B                   | University of Alabama at Birmingham                          |
| Leadership Education in Neurodevelopmental<br>Disabilities   | \$26,000  | Q4.Other                 | University of Pennsylvania                                   |
| Leadership Education in Neurodevelopmental Disabilities  | \$3,392   | Q5.L.A                   | University of Arizona  |
| Leadership Education in Neurodevelopmental<br>Disabilities   | \$5,500   | Q5.L.C                   | University of Alaska, Anchorage                              |
| Leadership Education in Neurodevelopmental Disabilities  | \$5,484   | Q5.L.C                   | University of Minnesota                                      |
| Leadership Education in Neurodevelopmental Disabilities  | \$6,000   | Q5.L.C                   | University of Tennessee Health Science Center                |
| Leadership Education in Neurodevelopmental Disabilities  | \$3,300   | Q5.L.C                   | University of Oklahoma                                       |
| Leadership in Family-Centered Early Intervention (LIFE) personnel preparation program                              | \$0       | Q5.Other                 | Florida State University                                     |

| Project Title  | Funding     | Strategic Plan Objective | Institution   |
|--|-------------|--------------------------|---|
| Leadership training in high-need students with severe disabilities/autism  | \$279,803   | Q7.K                     | Vanderbilt University   |
| Leadership training in severe disabilities/autism  | \$0         | Q7.K                     | Vanderbilt University   |
| Leading Excellence for Academic Positions in Special Education (LEAPS)   | \$244,305   | Q7.K                     | The Regents Of The University Of California Graduate School Of Education - Graduate School Of Education |
| LEAP-USA follow-up project   | \$399,864   | Q4.S.D                   | University of Colorado Denver   |
| Learning and plasticity in the human brain   | \$351,533   | Q2.Other                 | National Institutes of Health   |
| Learn the signs. Act early Improving early identification of ASDs through improved parental awareness of developmental milestones                                    | \$2,462,795 | Q5.L.A                   | Centers for Disease Control and Prevention (CDC)  |
| Linking local activity and functional connectivity in autism   | \$370,304   | Q2.Other                 | San Diego State University  |
| Linking local activity and functional connectivity in autism (supplement)  | \$92,508    | Q2.Other                 | San Diego State University  |
| Live Interactive Broadcast Equalizing Rural Access to Teacher Education (LIBERATE) - Training personnel to serve school-age children with low incidence disabilities | \$297,000   | Q5.L.A                   | University of Utah  |
| Locus-specific imprinting on the mammalian X chromosome  | \$327,994   | Q3.S.J                   | University of Connecticut   |
| Longitudinal characterization of functional connectivity in autism   | \$182,352   | Q2.L.A                   | University of Utah  |
| Longitudinal MRI study of brain development in fragile X   | \$901,844   | Q2.S.D                   | Stanford University   |
| Longitudinal studies of autism spectrum disorders: 2 to 23   | \$426,762   | Q6.L.B                   | Weill Cornell Medical College   |
| Low Incidence and Diversity Endorsement Project (LIDE)   | \$292,963   | Q5.L.C                   | University of Colorado Board of Regents   |
| LSS postdoctoral fellowship: Autism, social science and law  | \$200,000   | Q6.Other                 | University of Utah  |
| L-type calcium channel regulation of neuronal differentiation  | \$33,002    | Q2.S.D                   | Stanford University   |
| M.Ed. in autism spectrum disorders (ASDs) for teachers in the Department of Defense Dependent Schools (DoDDS)  | \$200,000   | Q5.Other                 | University of Maryland, College Park  |
| Magnetoencephalographic studies of lexical processing and abstraction in autism  | \$321,156   | Q2.Other                 | University of Pennsylvania  |
| Maternal cholesterol and autism  | \$0         | Q3.S.H                   | Oregon Health & Science University  |
| Maternal risk factors for autism spectrum disorders in children of the Nurses' Health Study II   | \$0         | Q3.L.C                   | Harvard University  |
| Maternal risk factors for autism spectrum disorders in children of the Nurses' Health Study II   | \$0         | Q3.L.C                   | Harvard University  |
| Maternal risk factors for autism spectrum disorders in children of the Nurses' Health Study II   | \$0         | Q3.L.C                   | Massachusetts General Hospital  |

| Project Title  | Funding     | Strategic Plan Objective | Institution   |
|--|-------------|--------------------------|---|
| Mathematical cognition in autism: A cognitive and systems neuroscience approach  | \$652,461   | Q2.Other                 | Stanford University                                       |
| Measuring social networks among parents and autism heath care providers  | \$234,000   | Q5.Other                 | University of Chicago                                     |
| Mechanism of UBE3A imprint in neurodevelopment   | \$34,439    | Q2.S.D                   | University of California, Davis                           |
| Mechanisms of mGluR5 function and dysfunction in mouse autism models   | \$406,760   | Q2.S.D                   | University of Texas Southwestern Medical Center           |
| Mechanisms of mitochondrial dysfunction in autism  | \$0         | Q2.S.A                   | Georgia State University                                  |
| Mechanisms of motor skill learning in the fragile X mouse model  | \$308,138   | Q2.S.D                   | University of Nebraska Medical Center                     |
| Mechanisms of stress-enhanced aversive conditioning  | \$381,250   | Q4.S.B                   | Northwestern University                                   |
| Mechanisms of synaptic alterations in a neuroinflammation model of autism  | \$579,882   | Q2.S.A                   | University of Nebraska Medical Center                     |
| Mechanisms of valproic acid-induced neurodevelopmental and behavioral defects  | \$318,513   | Q3.S.J                   | University of Maryland, Baltimore                         |
| MeCP2 modulation of BDNF signaling: Shared mechanisms of Rett and autism   | \$314,059   | Q2.S.D                   | University of Alabama at Birmingham                       |
| Metabolic signature of antipsychotics used in the treatment of autism  | \$0         | Q4.L.C                   | University of Cincinnati                                  |
| Metacognition in comparative perspective   | \$210,561   | Q2.Other                 | University at Buffalo, The State University of New York   |
| Methylomic and genomic impacts of organic pollutants in<br>Dup15q syndrome   | \$346,406   | Q3.S.J                   | University of California, Davis                           |
| Metropolitan Atlanta Developmental Disabilities<br>Surveillance Program/Autism and Developmental<br>Disabilities Monitoring (ADDM) network - Georgia | \$1,149,236 | Q7.I                     | Centers for Disease Control and Prevention (CDC)          |
| Met signaling in neural development and circuitry formation  | \$249,000   | Q2.Other                 | University of Arizona                                     |
| MicroRNAs in synaptic plasticity and behaviors relevant to autism  | \$131,220   | Q2.S.D                   | Massachusetts General Hospital                            |
| Modeling 5-HT-absorbing neurons in neuropathology of autism  | \$250,500   | Q2.Other                 | Albert Einstein College of Medicine of Yeshiva University |
| Modeling gut microbial ecology and metabolism in autism using an innovative ex vivo approach   | \$122,626   | Q3.S.I                   | University of Guelph                                      |
| Modeling the serotonin contribution to autism spectrum disorders   | \$236,532   | Q4.S.B                   | Vanderbilt University Medical Center                      |
| Modulation of fxr1 splicing as a treatment strategy for autism in fragile X syndrome   | \$0         | Q2.S.D                   | Stanford University                                       |
| Modulation of RhoA signaling by the mRNA binding protein hnRNPQ1   | \$30,912    | Q2.Other                 | Emory University  |
| Molecular analysis of bipolar and schizophrenia candidate genes  | \$415,000   | Q3.S.J                   | Albert Einstein College of Medicine of Yeshiva University |

| Project Title  | Funding     | Strategic Plan Objective | Institution   |
|--|-------------|--------------------------|---|
| Molecular components of A-type K+ channels   | \$363,366   | Q2.S.E                   | New York University School of Medicine  |
| Molecular controls over callosal projection neuron subtype specification and diversity                                     | \$42,232    | Q2.Other                 | Harvard University  |
| Molecular dissection of calmodulin domain functions  | \$321,473   | Q2.Other                 | University of Iowa  |
| Molecular mechanisms linking early life seizures, autism and intellectual disability                                       | \$333,473   | Q2.S.E                   | University of Colorado Denver   |
| Molecular mechanisms of the synaptic organizer alphaneurexin   | \$383,267   | Q2.Other                 | University of Michigan  |
| Monolingual and bilingual infants' sensitivity to agreement morphology in Spanish  | \$144,100   | Q2.Other                 | Florida International University  |
| Morphogenesis and function of the cerebral cortex  | \$409,613   | Q2.Other                 | Yale University   |
| Motor control and cerebellar maturation in autism  | \$157,148   | Q2.Other                 | University of Texas Southwestern Medical Center   |
| Motor skill learning in autism   | \$395,908   | Q2.Other                 | Kennedy Krieger Institute   |
| MTHFR functional polymorphism C677T and genomic instability in the etiology of idiopathic autism in simplex families       | \$0         | Q2.Other                 | Queen's University  |
| Multimedia tool for psychology graduate student ASD assessment training  | \$447,062   | Q1.S.A                   | Virtual Reality Aids, Inc.  |
| Multimodal brain imaging in autism spectrum disorders  | \$167,832   | Q2.Other                 | University of Washington  |
| Multimodal imaging of social brain networks in ASD   | \$150,036   | Q2.Other                 | San Diego State University  |
| Multimodal studies of executive function deficits in autism spectrum disorders   | \$54,570    | Q2.Other                 | Massachusetts General Hospital  |
| Multiple systems in theory of mind development   | \$0         | Q2.Other                 | Rutgers, The State University of New Jersey - New Brunswick   |
| Multiplexed suspension arrays to investigate newborn and childhood blood samples for potential immune biomarkers of autism | \$0         | Q1.L.A                   | Centers for Disease Control and Prevention (CDC)  |
| Multisensory integration in children with ASD  | \$192,136   | Q2.Other                 | University of California, Davis   |
| National Center on Inclusive Education for Children with Autism Spectrum Disorders and Related Disabilities                | \$0         | Q5.L.C                   | University of New Hampshire - Institute on Disability/University Center for Excellence on Disability (UCED) |
| National Database on Autism Research   | \$900,000   | Q7.H                     | Center for Information Technology   |
| National Resource and Information Center on Autism Spectrum Disorder and other Developmental Disabilities                  | \$350,000   | Q5.Other                 | The Arc of the United States  |
| Neocortical mechanisms of categorical speech perception  | \$239,255   | Q2.Other                 | University of California, San Francisco   |
| Neonatal biomarkers in extremely preterm babies predict childhood brain disorders  | \$3,478,718 | Q3.S.H                   | Boston Medical Center   |
| Networked cortical responses to movement associated with ASD   | \$449,700   | Q2.Other                 | University of Washington  |
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| Project Title  | Funding   | Strategic Plan Objective | Institution   |
|--|-----------|--------------------------|---|
| Neural basis of behavioral flexibility   | \$360,214 | Q2.Other                 | Mount Sinai School of Medicine                      |
| Neural basis of cross-modal influences on perception                                   | \$158,282 | Q2.Other                 | University of California, San Diego                 |
| Neural basis of empathy and its dysfunction in autism spectrum disorders (ASD)         | \$0       | Q2.Other                 | Duke University                                     |
| Neural correlates of restricted, repetitive behaviors in autism spectrum disorders     | \$0       | Q2.S.G                   | Massachusetts General Hospital                      |
| Neural correlates of restricted, repetitive behaviors in autism spectrum disorders     | \$0       | Q2.S.G                   | Massachusetts General Hospital                      |
| Neural economics of biological substrates of valuation                                 | \$379,913 | Q1.L.C                   | Virginia Polytechnic Institute and State University |
| Neural mechanisms of imitative behavior: Implications for mental health                | \$33,128  | Q2.Other                 | University of California, Los Angeles               |
| Neural mechanisms of tactile sensation in rodent somatosensory cortex                  | \$255,940 | Q2.Other                 | University of California, Berkeley                  |
| Neural predictors of language function after intervention in children with autism      | \$181,332 | Q1.L.B                   | University of California, Los Angeles               |
| Neural synchronydysfunction of gamma oscillations in autism                            | \$265,073 | Q2.Other                 | University of Colorado Denver                       |
| Neural synchronydysfunction of gamma oscillations in autism (supplement)               | \$100,386 | Q2.Other                 | University of Colorado Denver                       |
| Neurobehavioral investigation of tactile features in autism spectrum disorders         | \$162,666 | Q2.Other                 | Vanderbilt University Medical Center                |
| Neurobehavioral research on infants at risk for SLI and autism                         | \$944,962 | Q1.L.A                   | Boston University                                   |
| Neurobiological correlates of language dysfunction in autism spectrum disorders        | \$535,052 | Q2.Other                 | The Mind Research Network                           |
| Neurobiological mechanism of 15q11-13 duplication autism spectrum disorder             | \$380,625 | Q2.S.D                   | Beth Israel Deaconess Medical Center                |
| Neurobiological signatures of audiovisual speech perception in children in ASD         | \$217,886 | Q2.Other                 | Haskins Laboratories, Inc.                          |
| Neurobiological signatures of social dysfunction and repetitive behavior               | \$395,672 | Q4.S.B                   | Vanderbilt University Medical Center                |
| Neuroendocrine regulation of metabolism and neurocognition                             | \$402,805 | Q2.S.E                   | National Institutes of Health                       |
| Neuroimaging of top-down control and bottom-up processes in childhood ASD              | \$387,066 | Q2.Other                 | Georgetown University                               |
| Neuroimaging of top-down control and bottom-up processes in childhood ASD (supplement) | \$111,600 | Q2.Other                 | Georgetown University                               |
| Neuroimmunologic investigations of autism spectrum disorders (ASD)                     | \$101,877 | Q2.S.F                   | National Institutes of Health                       |
| Neuroligin function in vivo: Implications for autism and mental retardation            | \$388,575 | Q4.S.B                   | University of Texas Southwestern Medical Center     |

| Project Title   | Funding      | Strategic Plan Objective | Institution  |
|---|--------------|--------------------------|--|
| Neuronal basis of vicarious reinforcement dysfunction in autism spectrum disorder           | \$310,081    | Q2.Other                 | Duke University  |
| New approaches to local translation: SpaceSTAMP of proteins synthesized in axons            | \$419,095    | Q2.S.D                   | Dana-Farber Cancer Institute   |
| New experimental medicine studies: Fast-Fail Trials in autism spectrum disorders            | \$115,889    | Q4.L.A                   | University of California, Los Angeles  |
| Next generation gene discovery in familial autism   | \$688,392    | Q3.L.B                   | University of Washington   |
| NIMH IAN with the National Database for Autism<br>Research program                          | \$314,266    | Q7.H                     | National Institutes of Health  |
| NM-PASS (New Mexico-Preparing Autism Spectrum Specialists)                                  | \$299,818    | Q5.L.C                   | Board of Regents of New Mexico State University                                      |
| Novel candidate mechanisms of fragile X syndrome  | \$92,448     | Q2.S.D                   | Yale University  |
| Novel computational methods for higher order diffusion MRI in autism                        | \$725,545    | Q2.Other                 | University of Pennsylvania   |
| Novel genetic models of autism  | \$337,875    | Q4.S.B                   | University of Texas Southwestern Medical Center                                      |
| Novel genetic models of autism (supplement)   | \$99,773     | Q4.S.B                   | University of Texas Southwestern Medical Center                                      |
| Novel metabolic biomarker for autism spectrum disorder                                      | \$148,327    | Q1.S.E                   | Greenwood Genetic Center   |
| Novel probiotic therapies for autism  | \$0          | Q4.S.B                   | California Institute of Technology   |
| Novel regulatory network involving non-coding role of an ASD candidate gene PTEN            | \$208,750    | Q2.Other                 | Albert Einstein College of Medicine of Yeshiva Universit                             |
| Novel statistical methods for DNA sequencing data, and applications to autism               | \$339,743    | Q3.L.B                   | Columbia University  |
| Novel therapeutic targets to treat social behavior deficits in autism and related disorders | \$0          | Q4.S.B                   | University of Texas Health Science Center at San<br>Antonio                          |
| OCT blockade to restore sociability in 5-HT transporter knock-out mice                      | \$74,250     | Q4.S.B                   | University of Texas Health Science Center at San<br>Antonio                          |
| Office of the Scientific Director   | \$11,422,709 | Q7.Other                 | National Institutes of Health  |
| Olfactory abnormalities in the modeling of Rett syndrome                                    | \$351,575    | Q2.S.D                   | Johns Hopkins University   |
| Omnitec Solution for the NIMH National Database for<br>Autism Research                      | \$2,204,000  | Q7.H                     | National Institutes of Health  |
| Online training program for parents of children with autism spectrum disorder               | \$252,339    | Q5.L.A                   | Iris Media, Inc.   |
| Optimization of fidelity procedures for pivotal response training in autism                 | \$250,621    | Q5.L.A                   | Children's Hospital Research Center  |
| Optimizing initial communication for children with autism                                   | \$348,461    | Q4.S.G                   | University of Massachusetts Medical School   |
| Oxytocin receptors and social behavior  | \$440,363    | Q4.S.B                   | Emory University   |
| PA Community on Transition: Achieving outcomes through a shared agenda                      | \$0          | Q6.L.A                   | Pennsylvania Office of Vocational Rehabilitation -<br>Department of Labor & Industry |

| Project Title   | Funding     | Strategic Plan Objective | Institution   |
|---|-------------|--------------------------|---|
| Parent-based sleep education program for children with autism spectrum disorders  | \$0         | Q4.Other                 | Vanderbilt University   |
| Parent-implemented social-pragmatic communication intervention for young children with developmental disabilities   | \$0         | Q4.L.D                   | Illinois State University   |
| Parent implemented training for autism through teleconsultation (PITA-T)  | \$296,267   | Q5.L.A                   | West Virginia University  |
| Parenting your young child with autism: A web-based tutorial  | \$443,005   | Q5.L.A                   | Center for Psychological Consultation   |
| Partnering with autistic adults to develop tools to improve primary healthcare  | \$300,938   | Q6.L.A                   | Oregon Health & Science University  |
| Pathophysiology of MECP2 spectrum disorders (Career Development Award Proposal)   | \$179,981   | Q2.S.D                   | Baylor College of Medicine  |
| Patient iPS cells with copy number variations to model neuropsychiatric disorders   | \$336,050   | Q4.S.B                   | The Hospital for Sick Children  |
| PEAT communication scheduler for autism   | \$150,000   | Q4.S.G                   | Attention Control Systems, Inc.   |
| Pediatric brain imaging   | \$2,419,583 | Q2.L.A                   | National Institutes of Health   |
| Peer support and peer network interventions to improve peer relationships and school engagement   | \$641,771   | Q4.L.D                   | Vanderbilt University   |
| Penn State AAC Leadership Project: Preparing faculty in AAC research & personnel preparation to improve services & results for high-need children with severe communication disorders | \$249,958   | Q5.L.C                   | Pennsylvania State University-University Park   |
| Penn State Children's Communicative Competence<br>Project   | \$249,996   | Q5.Other                 | Pennsylvania State University-University Park   |
| Perception of social and physical contingencies in infants with ASD   | \$312,944   | Q1.L.B                   | Emory University  |
| Personnel development to improve services and results for children with disabilities  | \$299,999   | Q5.L.C                   | San Diego State University Foundation   |
| Personnel preparation for serving children with low incidence disabilties   | \$0         | Q5.Other                 | University of Vermont and State Agricultural College  |
| Personnel preparation program in low incidence severe disabilities  | \$241,543   | Q5.L.C                   | University Of North Carolina at Charlotte   |
| Personnel to serve students with autism and significant cognitive disabilities  | \$0         | Q5.Other                 | Pace University   |
| Pharmacotherapy of pervasive developmental disorders  | \$182,830   | Q4.L.C                   | Indiana University-Purdue University Indianapolis   |
| Phase 2: Animated Visual Support for Social Support (AViSSS); An interactive virtual experience for social skill development  | \$299,411   | Q4.Other                 | University Of Kansas Center For Research, Inc Sped - Special Education Educ Education Administration - Sped - Special Education Educ Education Administration |
| Phase II. Digital interactive scene program for language in autism (DISPL-A)  | \$236,912   | Q4.S.G                   | Monarch Teaching Technology, Inc.   |

| Project Title   | Funding   | Strategic Plan Objective | Institution   |
|---|-----------|--------------------------|---|
| Physiology of attention and regulation in children with ASD and LD  | \$341,013 | Q2.Other                 | Seattle Children's Hospital                                       |
| Pivotal response treatment for infants at risk for ASD: A pilot intervention  | \$83,000  | Q4.L.B                   | Yale University   |
| Placental vascular tree as biomarker of autism/ASD risk   | \$0       | Q1.L.A                   | Research Foundation for Mental Hygiene, Inc.                      |
| Pleiotropic roles of dyslexia genes in neurodevelopmental language impairments  | \$42,232  | Q2.S.D                   | Yale University   |
| Pocket Potty Program - Toilet training for children with developmental disabilities   | \$74,730  | Q4.Other                 | The Sandbox Learning Company                                      |
| Population-based autism genetics & environment study  | \$723,934 | Q3.L.D                   | Mount Sinai School of Medicine                                    |
| Population genetics to improve homozygosity mapping and mapping in admixed groups   | \$52,190  | Q3.L.B                   | Harvard Medical School  |
| Postdoctoral Research Training Fellowships in Early<br>Intervention and Early Learning in Special Education at<br>the University of Florida | \$164,760 | Q7.K                     | University of Florida   |
| Post-doctoral special education research training in urban communities: A research to practice model  | \$163,599 | Q7.K                     | University of Kansas  |
| Post-doctoral training in special education research  | \$155,777 | Q7.K                     | University of North Carolina at Chapel Hill                       |
| Pragmatics and semantics in autism spectrum disorder  | \$29,155  | Q2.Other                 | City University of New York Graduate School and University Center |
| Preclinical testing of novel oxytocin receptor activators in models of autism phenotypes  | \$0       | Q4.S.B                   | University of North Carolina at Chapel Hill                       |
| Preclinical testing of novel oxytocin receptor activators in models of autism phenotypes  | \$0       | Q4.S.B                   | University of North Carolina at Chapel Hill                       |
| Preclinical testing of novel oxytocin receptor activators in models of autism phenotypes  | \$0       | Q4.S.B                   | University of North Carolina at Chapel Hill                       |
| Predicting phenotypic trajectories in Prader-Willi syndrome   | \$310,752 | Q2.S.D                   | Vanderbilt University Medical Center                              |
| Predicting useful speech in children with autism  | \$726,467 | Q1.L.B                   | Vanderbilt University Medical Center                              |
| Predictors of effects of propranolol on language & connectivity in autism   | \$192,150 | Q4.S.F                   | University of Missouri  |
| Predictors of success in postsecondary STEM education and employment for students with autism   | \$217,996 | Q6.S.A                   | SRI International   |
| Prenatal and neonatal biologic markers for autism   | \$609,792 | Q3.S.C                   | Kaiser Foundation Research Institute                              |
| Prenatal and neonatal biologic markers for autism (supplement)  | \$129,464 | Q3.S.C                   | Kaiser Foundation Research Institute                              |
| Prenatal antidepressants and autism spectrum disorder   | \$153,000 | Q3.L.C                   | Cincinnati Children's Hospital Medical Center                     |
| Preparation for transition and secondary teachers of students with low-incidence disabilities   | \$0       | Q6.S.D                   | Kent State University   |
| Preparation of leaders across the lifespan for autism   | \$250,000 | Q7.K                     | Texas A&M University  |

| Project Title  | Funding   | Strategic Plan Objective | Institution                                 |
|--|-----------|--------------------------|---|
| Preparation of leadership personnel to serve infants, toddlers, children, and youth with autism  | \$0       | Q7.K                     | Florida State University                    |
| Preparation of occupational therapists and physical therapists for service provision in early intervention and related services  | \$0       | Q5.Other                 | University of Oklahoma                      |
| Preparation of personnel to serve school age children with low incidence disabilities: Focus on high quality instruction in core academic area in the least restrictive environment                      | \$0       | Q5.L.C                   | University of New Hampshire                 |
| Preparing and supporting personnel in Western North Carolina to teach students with severe disabilities  | \$200,000 | Q5.L.C                   | Western Carolina University                 |
| Preparing early childhood special educators, occupational therapists, and speech-language pathologists for working with young children with autism and their families                                    | \$0       | Q5.Other                 | University of North Carolina at Chapel Hill |
| Preparing personnel for intervention with young children with autism   | \$200,000 | Q5.Other                 | Vanderbilt University                       |
| Preparing school psychologists to work with children with autism using evidence-based practices  | \$0       | Q5.Other                 | University of Utah                          |
| Preparing SLPs, OTs, early childhood special educators, and developmental psychologists for leadership roles in teaching, research, and service focused on young children with autism and their families | \$0       | Q7.K                     | University of North Carolina at Chapel Hill |
| Preparing special educators in autism spectrum disorders   | \$300,000 | Q5.Other                 | University of Central Florida               |
| Preparing special educators to be leaders in the implementation of effective techniques for supporting children and youth with autism spectrum disorders   | \$0       | Q5.Other                 | Santa Clara University                      |
| Preparing special educators to work with children and youth with autism  | \$200,000 | Q5.Other                 | University of Oregon                        |
| Preparing teachers to teach children with autism & developmental disabilities  | \$199,989 | Q5.Other                 | Bank Street College of Education            |
| Preparing tomorrow's school psychology faculty to meet<br>the needs of children with disabilities using evidence-<br>based practices   | \$0       | Q5.Other                 | University of Utah                          |
| Preschool reading and language interventions for children with autism  | \$299,795 | Q4.L.D                   | University of Washington                    |
| Presynaptic regulation of quantal size by the cation/H+ exchangers NHE6 & NHE9   | \$33,932  | Q2.Other                 | University of California, Berkeley          |
| Project 1: Effect of multi-level environmental exposure on birth outcomes  | \$23,798  | Q3.S.C                   | University of California, Berkeley          |
| Project 2: Immunological susceptibility of autism (supplement)   | \$30,784  | Q2.S.A                   | University of California, Davis             |
|  |           |                          |   |

| Project Title  | Funding   | Strategic Plan Objective | Institution                                   |
|--|-----------|--------------------------|---|
| Project ABeLL: Preparing early childhood special educators to support young children with autism or disabilities in behavior, language and/or literacy                       | \$250,000 | Q5.Other                 | University Of Missouri Board of Curators      |
| Project Adapted PE   | \$0       | Q5.L.C                   | University of Utah                            |
| Project ASSET: Autism Spectrum Specialized Education and Training (ASSET)  | \$200,000 | Q5.L.C                   | Florida State University                      |
| Project CAT (Comprehensive Autism Teaching)  | \$0       | Q5.L.C                   | Touro University                              |
| Project CHANGE (Children with Autsim Need a Great Education)   | \$199,960 | Q5.Other                 | University of Texas at El Paso                |
| Project Common Ground: Preparing highly qualified speech-language pathologists to meet the communication needs of children with autism spectrum disorder in diverse settings | \$248,180 | Q5.L.C                   | San Francisco State University                |
| Project Connect: Connecting school districts with highly qualified teachers in low-incidence disabilities  | \$0       | Q5.Other                 | University of Nevada                          |
| Project DART: Distance Education for Autism Personnel in Rural Texas   | \$0       | Q5.L.A                   | University of North Texas                     |
| Project DATA: A multisite evaluation of a school-based model for preschoolers with autism  | \$650,000 | Q4.S.D                   | University of Oklahoma                        |
| Project DATA (Developmentally Appropriate Treatment for Autism) for teachers: Preparing teachers for toddlers and preschoolers with autism spectrum disorder                 | \$0       | Q5.Other                 | University of Washington                      |
| Project I-CARE: Culturally Aligned and Responsive Early Intervention.  | \$250,000 | Q5.L.C                   | Queen's College (City University of New York) |
| Project IMPRESS - Interactive Master's: Preparing,<br>Responding, Enhancing School-based Speech-<br>Language Pathologists  | \$199,845 | Q5.L.C                   | Bloomsburg University of Pennsylvania         |
| Project iTAPE: Improve Training in Adapted Physical Education  | \$238,204 | Q5.Other                 | University of Utah                            |
| Project Manawa Kupono (Opportunity): Preparing educators to improve outcomes for students with autism  | \$0       | Q5.L.C                   | University of Hawaii                          |
| Project PEACE (Preparing Educators About Autism Through Collaborative Efforts)   | \$199,997 | Q5.L.C                   | Florida International University              |
| Project PREPARE: Preparing Rigorous and Effective<br>Professionals as Autism Researchers and Educators   | \$249,991 | Q5.Other                 | Florida International University              |
| Project S.A.G.E. Successfully Accessing General Education  | \$199,949 | Q5.Other                 | University of South Florida                   |
| Project SASI: Students with Autism & Sensory<br>Impairments - Addressing the personnel shortages of<br>rural, remote and high-need areas                                     | \$249,999 | Q5.Other                 | Texas Tech University                         |
| Project SCIPP (Significant Cognitive Disabilities<br>Personnel Preparation - A Multi-University Consortium)  | \$0       | Q5.L.A                   | University of Florida                         |

| Project Title   | Funding   | Strategic Plan Objective | Institution                                     |
|---|-----------|--------------------------|---|
| Project STARS: Specialized Training in Autism for Rural Schools   | \$0       | Q5.L.A                   | West Virginia University Research Corporation   |
| Project STARS: Systematic Training for Autism Researchers and School Personnel  | \$0       | Q7.K                     | University of North Texas                       |
| Project Surfboard: Sustaining Practicies by Specialists on Autism Spectrum Disorder   | \$249,999 | Q5.Other                 | San Diego State University                      |
| Prostaglandins and cerebellum development   | \$371,250 | Q2.S.A                   | University of Maryland, Baltimore               |
| Psychobiological investigation of the socioemotional functioning in autism  | \$347,490 | Q2.Other                 | Vanderbilt University Medical Center            |
| Rapid characterization of balanced genomic rearrangements contributing to autism  | \$53,942  | Q3.L.B                   | Massachusetts General Hospital                  |
| Rapid phenotyping for rare variant discovery in autism  | \$700,956 | Q3.S.A                   | University of California, Los Angeles           |
| Reach to Teach: Serving infants, toddlers, and young children with autism spectrum disorders and developmental disabilities             | \$234,849 | Q5.Other                 | University of Texas of the Permian Basin        |
| Receptive vocabulary knowledge in low-functioning autism as assessed by eye movements, pupillary dilation, and event-related potentials | \$0       | Q1.L.C                   | Johns Hopkins University                        |
| Recruiting and preparing highly qualified special educators   | \$0       | Q5.Other                 | University of Central Florida                   |
| Redox abnormalities as a vulnerability phenotype for autism and related alterations in CNS development                                  | \$0       | Q2.S.A                   | University of Rochester                         |
| Redox abnormalities as a vulnerability phenotype for autism and related alterations in CNS development                                  | \$0       | Q2.S.A                   | Arkansas Children's Hospital Research Institute |
| Redox abnormalities as a vulnerability phenotype for autism and related alterations in CNS development                                  | \$0       | Q2.S.A                   | State University of New York at Potsdam         |
| Reducing barriers to autism care in Latino children   | \$179,521 | Q1.S.C                   | Oregon Health & Science University              |
| Reducing obesity risk in children with developmental disabilities   | \$29,999  | Q5.L.D                   | Temple University                               |
| Regulation of 22q11 genes in embroyonic and adult forebrain   | \$308,631 | Q2.S.D                   | George Washington University                    |
| Regulation of 22q11 genes in embroyonic and adult forebrain (supplement)  | \$24,262  | Q2.S.D                   | George Washington University                    |
| Regulation of spine morphogenesis by NrCAM  | \$185,000 | Q2.Other                 | University of North Carolina at Chapel Hill     |
| Related services intervention for expressive and receptive language skills in autism spectrum disorder and in cognitive impairment      | \$0       | Q4.L.D                   | Vanderbilt University                           |
| Restricted repetitive behavior in autism  | \$416,315 | Q1.L.B                   | University of North Carolina at Chapel Hill     |
| Revealing protein synthesis defects in fragile X syndrome with new chemical tools   | \$340,520 | Q2.S.D                   | Stanford University                             |
| RI: Small: Addressing visual analogy problems on the raven's intelligence test  | \$284,454 | Q2.Other                 | Georgia Tech Research Corporation               |

| Project Title   | Funding     | Strategic Plan Objective | Institution                                   |
|---|-------------|--------------------------|---|
| Risk and resiliency for youth with autism during the transition to adulthood  | \$142,194   | Q6.S.A                   | Vanderbilt University Medical Center          |
| Risk factors, comorbid conditions, and epidemiology of autism in children   | \$0         | Q3.S.H                   | Henry M. Jackson Foundation                   |
| RNA expression patterns in autism   | \$710,306   | Q3.L.B                   | Boston Children's Hospital                    |
| Robot child interactions as an intervention tool for children with autism   | \$341,773   | Q4.Other                 | University of Connecticut                     |
| Robot child interactions as an intervention tool for children with autism (supplement)                                  | \$35,325    | Q7.H                     | University of Connecticut                     |
| Role of autism-susceptibility gene, CNTNAP2, in neural circuitry for vocal communication                                | \$0         | Q2.Other                 | University of California, Los Angeles         |
| Role of GluK6 in cerebella circuitry development  | \$58,442    | Q2.Other                 | Yale University                               |
| Role of neuronal migration genes in synaptogenesis and plasticity   | \$52,190    | Q2.Other                 | Weill Cornell Medical College                 |
| Role of Sema7A in functional organization of neocortex  | \$423,750   | Q2.S.D                   | Mount Sinai School of Medicine                |
| Roles of oxytocin and vasopressin in brain  | \$1,990,068 | Q4.S.B                   | National Institutes of Health                 |
| SBIR Phase I: A consumer robot designed to help children with autism spectrum disorders practice critical social skills | \$146,639   | Q4.Other                 | Interbots LLC                                 |
| SEDL's vocational rehabilitation service models for individuals with autism spectrum disorders                          | \$350,000   | Q6.S.B                   | Southwest Educational Development Corporation |
| Selective disruption of hippocampal dentate granule cells in autism: Impact of PT                                       | \$411,292   | Q2.S.E                   | Cincinnati Children's Hospital Medical Center |
| Selective disruption of hippocampal dentate granule cells in autism: Impact of PT (supplement)                          | \$14,596    | Q2.S.E                   | Cincinnati Children's Hospital Medical Center |
| Self-injurious behavior: An animal model of an autism endophenotype   | \$0         | Q2.Other                 | University of Florida                         |
| Self-regulation and sleep in children at risk for autism spectrum disorders   | \$87,899    | Q2.S.E                   | University of California, Davis               |
| Semaphorin4D and PlexinB1 mediate GABAergic synapse development in mammalian CNS  | \$27,814    | Q2.Other                 | Brandeis University                           |
| Sensitive periods in cerebellar development   | \$32,941    | Q2.S.A                   | University of Maryland, Baltimore             |
| Sensor-based technology in the study of motor skills in infants at risk for ASD   | \$191,070   | Q1.L.A                   | University of Pittsburgh                      |
| Sensory adapted dental environments to enhance oral care for children with autism                                       | \$296,952   | Q5.L.E                   | University of Southern California             |
| Sensory based CNS diagnostics for the clinic  | \$181,885   | Q1.S.B                   | University of North Carolina at Chapel Hill   |
| Sensory experiences in children with autism   | \$472,116   | Q1.Other                 | University of North Carolina at Chapel Hill   |
| Sensory experiences in children with autism (supplement)  | \$51,920    | Q1.Other                 | University of North Carolina at Chapel Hill   |

| Project Title   | Funding   | Strategic Plan Objective | Institution  |
|---|-----------|--------------------------|--|
| Sensory integration and language processing in autism   | \$149,556 | Q1.L.C                   | University of Rochester                                      |
| Sensory mechanisms and self-injury  | \$447,738 | Q2.S.E                   | University of Minnesota                                      |
| Sensory processing and integration in autism  | \$548,158 | Q2.Other                 | Albert Einstein College of Medicine of Yeshiva University    |
| Serotonin, autism, and investigating cell types for CNS disorders   | \$246,794 | Q4.S.B                   | Washington University in St. Louis                           |
| Serotonin signal transduction in two groups of autistic patients  | \$0       | Q2.Other                 | University of Illinois at Chicago                            |
| Serum antibody biomarkers for ASD   | \$0       | Q1.L.A                   | University of Texas Southwestern Medical Center              |
| Service transitions among youth with autism spectrum disorders  | \$212,584 | Q6.L.B                   | Washington University in St. Louis                           |
| Sex differences in early brain development; Brain development in Turner syndrome  | \$155,873 | Q2.S.D                   | University of North Carolina at Chapel Hill                  |
| Shank3 in synaptic function and autism  | \$401,250 | Q2.Other                 | Massachusetts Institute of Technology                        |
| SHB: Type II (INT): Synthesizing self-model and mirror feedback imageries with applications to behavior modeling for children with autism | \$798,912 | Q2.Other                 | University of Kentucky Research Foundation                   |
| Social-affective bases of word learning in fragile X syndrome and autism  | \$703,969 | Q1.Other                 | University of California, Davis                              |
| Social and affective components of communication  | \$317,715 | Q2.Other                 | Salk Institute For Biological Studies                        |
| Social and statistical mechanisms of prelinguistic vocal development  | \$0       | Q1.Other                 | Cornell University   |
| Social brain networks for the detection of agents and intentions  | \$414,688 | Q2.Other                 | Yale University  |
| Social communication and symbolic play intervention for preschoolers with autism  | \$0       | Q4.L.D                   | University of North Carolina at Chapel Hill                  |
| Social-emotional development of infants at risk for autism spectrum disorders   | \$662,677 | Q1.L.B                   | University of Washington                                     |
| Social-emotional development of infants at risk for autism spectrum disorders (supplement)  | \$39,002  | Q1.L.B                   | University of Washington                                     |
| Social evaluation in infants and toddlers   | \$409,613 | Q1.L.B                   | Yale University  |
| Software to enrich the noun lexicons and lexical learning of children with autism   | \$756,189 | Q4.L.D                   | Laureate Learning Systems, Inc.                              |
| SOTELCO in classroom settings   | \$0       | Q5.L.A                   | University of Kansas Medical Center Research Institute, Inc. |
| Southern Connecticut State University Center for<br>Excellence on Autism Spectrum Disorders   | \$0       | Q5.L.C                   | Southern Connecticut State University                        |
| Special educator preparation in autism spectrum disorders   | \$0       | Q5.Other                 | University of Central Florida                                |
| State of the states in services and supports for persons with autism spectrum disorder.   | \$0       | Q7.B                     | Centers for Medicare & Medicaid Services (CMS)               |

| Project Title   | Funding     | Strategic Plan Objective | Institution                                     |
|---|-------------|--------------------------|---|
| Statistical analysis of biomedical imaging data in curved space   | \$326,528   | Q2.Other                 | University of North Carolina at Chapel Hill     |
| Statistical word learning and non-social visual attention in children with autism   | \$33,148    | Q2.Other                 | University of Wisconsin - Madison               |
| Striatal synaptic abnormalities in models of autism   | \$397,396   | Q4.S.B                   | University of Texas Southwestern Medical Center |
| Structural and functional connectivity of large-scale brain networks in autism  | \$168,978   | Q2.Other                 | Stanford University                             |
| Structural and functional neuroimaging of the auditory system in autism   | \$157,905   | Q2.Other                 | Children's Hospital of Philadelphia             |
| Studies of genetic and metabolic disorders, autism and premature aging  | \$1,667,480 | Q4.S.B                   | National Institutes of Health                   |
| Studying the biology and behavior of autism at 1-year:<br>The Well-Baby Check-Up approach   | \$272,164   | Q1.L.A                   | University of California, San Diego             |
| Studying the impact of service-learning on career development, self-determination, and social skill building for youth with autism spectrum disorders   | \$300,000   | Q6.S.A                   | University of Massachusetts, Boston             |
| Study of fragile X mental retardation protein in synaptic function and plasticity   | \$317,077   | Q2.S.D                   | University of Texas Southwestern Medical Center |
| Subtyping of toddlers with ASD based on patterns of ocial attention deficits  | \$665,455   | Q1.L.B                   | Yale University                                 |
| Successful transition in the early school years for shildren with autism  | \$396,871   | Q5.Other                 | University of California, Riverside             |
| Superheroes Social Skills Training, Rethink Autism<br>nternet Interventions, Parent Training, EBP Classroom<br>Fraining, Functional Behavior Assessment | \$245,453   | Q5.Other                 | Unversity of Utah                               |
| Sustainable implementation of family-centered transition<br>planning for young adults with autism spectrum<br>disorders                                 | \$200,000   | Q5.L.A                   | University of New Hampshire                     |
| Sustaining evidence-based practice for young learners with autism spectrum disorders through a M.A. degree program                                      | \$0         | Q5.Other                 | San Diego State University                      |
| Synaptic phenotype, development, and plasticity in the ragile X mouse   | \$395,134   | Q2.S.D                   | University of Illinois at Urbana Champaign      |
| Synaptic processing in the basal ganglia  | \$377,815   | Q2.Other                 | University of Washington                        |
| synchronous activity in networks of electrically coupled ortical interneurons   | \$0         | Q2.Other                 | University of California, Davis                 |
| Systematic characterization of the immune response to<br>luten and casein in autism spectrum disorders  | \$0         | Q2.S.A                   | Weill Cornell Medical College                   |
| actile Awareness Prompting (TAP) System   | \$74,839    | Q4.L.D                   | Engineering Acoustics, Inc.                     |
| ailored behavioral intervention for insomnia in children vith autism spectrum disorders   | \$159,975   | Q4.S.H                   | University of Pennsylvania                      |

| Project Title   | Funding     | Strategic Plan Objective | Institution                             |
|---|-------------|--------------------------|---|
| Taste, smell, and feeding behavior in autism: A quantitative traits study   | \$570,508   | Q2.Other                 | University of Rochester                 |
| Teaching skills to toddlers: A program for caregivers   | \$227,719   | Q5.L.A                   | University of Connecticut               |
| Tennessee state personnel development grant   | \$492,630   | Q5.Other                 | Tennessee Department of Education       |
| Testing brain overgrowth and synaptic models of autism using NPCs and neurons from patient-derived iPS cells  | \$315,375   | Q4.S.B                   | University of California, San Francisco |
| Testing brain overgrowth and synaptic models of autism using NPCs and neurons from patient-derived iPS cells  | \$377,663   | Q4.S.B                   | Salk Institute for Biological Studies   |
| Testing the hyperspecificity hypothesis: A neural theory of autism  | \$247,018   | Q2.Other                 | Children's Hospital of Philadelphia     |
| Test of integrated language and literacy skills validation research   | \$496,164   | Q1.Other                 | Western Michigan University             |
| Texas Educators for Students with Autism (TESA)   | \$173,295   | Q5.Other                 | Texas State University-San Marcos       |
| The Charge Study: Childhood Autism Risks from<br>Genetics and the Environment (supplement)  | \$188,012   | Q3.S.C                   | University of California, Davis         |
| The cognitive neuroscience of autism spectrum disorders   | \$1,074,095 | Q2.Other                 | National Institutes of Health           |
| The computational basis of theory of mind in the human brain  | \$103,965   | Q2.Other                 | California Institute of Technology      |
| The development of joint attention after infancy  | \$291,832   | Q1.L.C                   | Georgia State University                |
| The effects of a bicycle training intervention on health, physical activity, sleep, and community participation in youth with Down syndrome and autism spectrum disorders | \$0         | Q5.L.D                   | University of Michigan                  |
| The effects of autism on the sign language development of deaf children   | \$59,419    | Q2.Other                 | Boston University                       |
| The effects of autism on the sign language development of deaf children (supplement)  | \$1,188     | Q2.Other                 | Boston University                       |
| The effects of State and Federal insurance policies on quality of care for autism   | \$450,534   | Q5.S.A                   | Pennsylvania State University           |
| The functional link between DISC1 and neuroligins: Two genetic factors in the etiology of autism  | \$0         | Q2.S.D                   | Children's Memorial Hospital, Chicago   |
| The genetic and neuroanatomical origin of social behavior   | \$391,250   | Q4.S.B                   | Baylor College of Medicine              |
| The genetic basis of mid-hindbrain malformations  | \$798,866   | Q2.S.G                   | Seattle Children's Hospital             |
| The genetic control of social behavior in the mouse   | \$342,540   | Q4.S.B                   | University Of Hawai'i at Manoa          |
| The genetic control of social behavior in the mouse (supplement)  | \$201,966   | Q2.Other                 | University of Hawai'i at Manoa          |
| The impact of Pten signaling on neuronal form and function  | \$346,014   | Q2.Other                 | Dartmouth College                       |
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| Project Title   | Funding   | Strategic Plan Objective | Institution                                   |
|---|-----------|--------------------------|---|
| The impact of uncertainty in genome-wide testing for autism spectrum disorder   | \$240,000 | Q1.S.E                   | University of Pennsylvania                    |
| The intersection of autism and ADHD   | \$160,519 | Q1.L.B                   | Washington University in St. Louis            |
| The microRNA pathway in translational regulation of neuronal development  | \$352,647 | Q2.S.D                   | University of Massachusetts Medical School    |
| The microstructural basis of abnormal connectivity in autism  | \$332,991 | Q2.Other                 | University of Utah                            |
| The microstructural basis of abnormal connectivity in autism (supplement)   | \$226,217 | Q7.H                     | University of Utah                            |
| The neural bases of top-down attentional control in autism spectrum disorders   | \$27,578  | Q2.Other                 | City College of New York                      |
| The neural substrates of higher-level learning in autism  | \$192,500 | Q2.Other                 | University of California, Davis               |
| The neural substrates of social interactions  | \$15,865  | Q2.Other                 | University of Iowa                            |
| The ontogeny of social visual engagement in infants at risk for autism  | \$473,149 | Q1.L.A                   | Emory University                              |
| The Professional Development Center: Children with autism spectrum disorders  | \$0       | Q5.L.C                   | University of North Carolina at Chapel Hill   |
| The role of Fox-1 in neurodevelopment and autistic spectrum disorder  | \$145,757 | Q2.Other                 | University of California, Los Angeles         |
| The role of germline mutation and parental age in autism spectrum disorders   | \$757,596 | Q3.S.C                   | University of California, San Diego           |
| The role of intracellular metabotropic glutamate receptor 5 at the synapse  | \$13,400  | Q2.S.D                   | Washington University in St. Louis            |
| The role of MeCP2 in Rett syndrome  | \$382,858 | Q2.S.D                   | University of California, Davis               |
| The role of the new mTOR complex, mTORC2, in autism spectrum disorders  | \$625,998 | Q2.Other                 | Baylor College of Medicine                    |
| The roles of environmental risks and GEX in increasing ASD prevalence   | \$575,290 | Q3.L.D                   | Yale University                               |
| The social brain in schizophrenia and autism spectrum disorders   | \$594,733 | Q2.Other                 | Hartford Hospital                             |
| The striatal circuitry underlying autistic-like behaviors   | \$31,975  | Q2.Other                 | Duke University                               |
| The Study of Toddlers with Autism and Regression (STAR) Protocol – Screening for treatable disorders and biomarkers of inflammation and immune activation in the plasma and CNS | \$0       | Q2.S.A                   | Surrey Place Centre, Toronto                  |
| The use of interactive television in identifying autism in young children   | \$188,750 | Q1.S.A                   | University of Kansas Medical Center           |
| Tooth pulp as a source for neuronal precursor cells to study neurogenetic disorders   | \$187,344 | Q4.S.B                   | University of Tennessee Health Science Center |
| Toward outcome measurement of anxiety in youth with autism spectrum disorders   | \$829,922 | Q1.L.B                   | Yale University                               |
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| Project Title   | Funding   | Strategic Plan Objective | Institution                                    |
|---|-----------|--------------------------|--|
| Towards an endophenotype for amygdala dysfunction   | \$380,304 | Q2.Other                 | California Institute of Technology             |
| Training & research for autism & collaboration in kinesiology   | \$250,000 | Q5.Other                 | Chico Research Foundation                      |
| Training in translational social neuroscience   | \$98,163  | Q4.S.B                   | Emory University                               |
| Training outpatient clinicians to deliver cognitive behavior therapy to children  | \$238,101 | Q4.S.C                   | University of Colorado Denver                  |
| Training personnel in minority institutions to serve infants, toddlers, and children with disabilities                          | \$194,826 | Q5.Other                 | Purdue University                              |
| Training personnel to serve school age children with low incidence disabilities: Autism spectrum disorders                      | \$200,000 | Q5.Other                 | University of Kansas                           |
| Training personnel to teach school-age children with autism   | \$0       | Q6.L.A                   | Auburn University                              |
| Training school psychologists as specialists in the inclusion of students with autism   | \$0       | Q5.Other                 | Lehigh University                              |
| Training school speech-language pathologists to assess and manage communication skills in children with autism                  | \$197,633 | Q5.Other                 | University of Massachusetts Amherst            |
| Training Speech-Language Pathologists in the Public Schools to deliver Reliable Evidence-based Models of Technology Effectively | \$248,184 | Q5.Other                 | University of Massachusetts Amherst            |
| Transcriptional regulators in normal human brain development and autism   | \$30,002  | Q2.Other                 | University of California, Los Angeles          |
| Transdisciplinary approaches to autism spectrum disorders   | \$299,673 | Q5.Other                 | San Diego State University Research Foundation |
| Transgenic and knockout approaches to study protocadherin function  | \$228,750 | Q4.S.B                   | The Ohio State University                      |
| Transition to adult services for youth with autism spectrum disorder  | \$283,935 | Q6.L.A                   | Massachusetts General Hospital                 |
| Translating pivotal response training into classroom environments   | \$0       | Q4.L.D                   | Rady Children's Hospital Health Center         |
| Translational developmental neuroscience of autism  | \$168,116 | Q1.L.B                   | New York University School of Medicine         |
| Translational regulation of adult neural stem cells   | \$396,944 | Q2.S.D                   | University of Wisconsin - Madison              |
| Treatment of Autism Symptoms in Children (TASC):<br>Initial RCT with active control   | \$385,000 | Q4.Other                 | University of California, Los Angeles          |
| Treatment of medical conditions among individuals with autism spectrum disorders  | \$339,591 | Q2.S.E                   | National Institutes of Health                  |
| Treatment of sleep disturbances in young children with autism   | \$214,889 | Q4.S.H                   | University of Pittsburgh                       |
| Trial of a glutamate antagonist in the treatment of OCD and autistic disorders  | \$33,959  | Q4.L.A                   | National Institutes of Health                  |
| Typical and pathological cellular development of the human amygdala   | \$385,000 | Q2.Other                 | University of California, Davis                |

| Project Title  | Funding   | Strategic Plan Objective | Institution                           |
|--|-----------|--------------------------|---------------------------------------|
| Understanding the role of Epac2 in cognitive function  | \$47,232  | Q2.Other                 | Northwestern University               |
| University of Minnesota – Somali<br>Autism Surveillance Project  | \$108,610 | Q7.J                     | University of Minnesota               |
| Use of a family navigator in families with children newly diagnosed with autism spectrum disorder  | \$298,186 | Q5.S.A                   | Boston University School of Medicine  |
| Using induced pluripotent stem cells to identify cellular phenotypes of autism   | \$792,000 | Q4.S.B                   | Stanford University                   |
| Using robotics to promote social cognitive skills in the inclusive classroom   | \$0       | Q4.Other                 | Anthrotronix, Inc.                    |
| Using technology to expand and enhance applied behavioral analysis programs for children with autism in military families                | \$0       | Q5.L.A                   | University of Nebraska Medical Center |
| Utility of social robots for promoting joint attention in infants and toddlers with disabilities   | \$0       | Q4.Other                 | Orelena Hawks Puckett Institute       |
| Validity of an anxious subtype in autism spectrum disorders  | \$50,294  | Q1.L.B                   | University of California, Los Angeles |
| Vasopressin receptor polymorphism and social cognition   | \$395,156 | Q2.Other                 | Georgia State University              |
| Virtual Environment for Social Information Processing (VESIP) Phase II   | \$163,841 | Q4.Other                 | Soar Technology, Inc                  |
| Virtual reality applications for the study of attention and learning in children with autism and ADHD                                    | \$369,546 | Q4.L.D                   | University of California, Davis       |
| Visual attention and fine motor coordination in infants at risk for autism   | \$73,123  | Q1.L.A                   | University of Connecticut             |
| Vocational rehabilitation service models for individuals with autism spectrum disorders (VCU ASC Career Links)                           | \$350,000 | Q6.S.B                   | Virginia Commonwealth University      |
| Voyages: From Natural Environments to Inclusive<br>Preschools- Transforming Educational Outcomes for<br>Young Children with Disabilities | \$249,982 | Q5.Other                 | George Washington University          |
| White matter glial pathology in autism   | \$0       | Q2.Other                 | East Tennessee State University       |
| Wireless EEG system for training attention and eye movement in ASD   | \$271,250 | Q4.Other                 | University of California, San Diego   |
| Young development of a novel PET ligand for detecting oxytocin receptors in brain  | \$261,360 | Q2.Other                 | Emory University                      |
| Young development of a novel PET ligand for detecting oxytocin receptors in brain (supplement)   | \$176,000 | Q2.Other                 | Emory University                      |